

REPRIVE NOTICE LOST ON EVE OF EXECUTION

Youth Snatched From Chair by Supreme Court Justice's Prompt Action.

COLUMBUS, O., Dec. 20.—Joseph C. Kane, Youngstown, O., youth, sentenced to be electrocuted at 1 o'clock this morning, escaped death at least temporarily, when approximately four hours before he was to go to the chair, it was found that a stay of execution had been issued yesterday by Chief Justice C. T. Marshall of the state supreme court, and that no notification of the court's action had reached Warden Thomas at the prison.

The stay, according to Justice Marshall, was issued by him shortly before noon, but for some reason the official papers did not find their way through the clerk's office to the warden. At 10 p. m. the warden was making all preparations for the electrocution of Kane, who was sentenced to death for the murder of Paul Proff, a 25-year-old Youngstown boy.

At that time Justice Marshall, failing to see notice of the issuance of the stay in the evening newspaper, called a local morning paper to inquire about it. Nothing was known of it there. Court clerks who were questioned knew nothing of the stay. If the official papers were not forthcoming, the execution, according to Kane, would have been held, Warden Thomas said.

Falling to find trace of the lost document, Justice Marshall immediately telephoned to find another way out. He got in touch with Gov. Donahay by telephone, advised him of the situation and the chief executive immediately granted a reprieve until Jan. 8.

The word was passed on to Warden Thomas and Kane, as a result, will live at least until the expiration of the reprieve.

The salad dressing with the delightful tang

Recipe book on request.

Premier Salad Dressing

FRANCIS H. LEGGETT & CO. NEW YORK

Try Premier Coffee Too

CHRISTMAS COMFORT ECONOMY

HAILEM'S USED CARS

Hours Now by Paying 90 Down

ED CAR KING

Magnificent Array of PIES—SEDANS—TOURING—\$75, \$100, \$200 Down

or to Pay—No Interest

About the 8% Bonus Plan

Xmas or Spring Delivery

Choose From

HAILEM

Open Sunday

Yahlem's, it's all right.

LAW LIMITING PRESCRIPTION OF LIQUOR UPHELD

Federal Circuit Court of Appeals Sustains Law Fixing Maximum Amount for Medicinal Use.

Supreme Court Decision Cited

Judges Declare Medicinal Value of Whisky Is Disputed and Quote Medical Association Bulletin.

By Lead Wire From the New York Bureau of the Post-Dispatch.

NEW YORK, Dec. 20.—Reversing a decision given some months ago by Federal Judge Knox, who held that physicians could prescribe to patients more than the legal limit of liquor every ten days allotted by the Volstead law, the United States Circuit Court of Appeals has unanimously upheld the constitutionality of the law's restriction.

Judge Knox granted an injunction yesterday to Dr. Samuel W. Lambert, who had sued to restrain the Federal prohibition department and the United States attorneys from enforcing the Volstead provision, which was regarded by physicians as a curtailment of their professional rights.

In the appeals court decision, written by Judge Rogers and concurred in by Judge Hough and Judge Hand, the court declared its ruling voided the opinion of the United States Supreme Court in a case under the Willis-Campbell act in which breweries sought to establish their right to manufacture malt beverages for medicinal purposes.

None of the attempts to have the Willis-Campbell act declared unconstitutional has succeeded, the decision points out, and the courts of the United States have acted from the beginning on the assumption that acts of Congress are constitutional until proved otherwise beyond all reasonable doubt.

The opinion further rules that the medicinal value of whisky is a disputed matter, and quotes from a bulletin of the American Medical Association frowning on its use as a medicine. It also quotes from the Supreme Court's decision that manufacturing for medicinal purposes opens the doors to clandestine traffic.

Referring to the United States Supreme Court's decision in the Willis-Campbell act, which prohibited the prescription of malt liquors, the appeals court states that the reasoning upon which that decision was based is exactly the reasoning upon which we decide the case now before us.

BOY, 16, ADMITS STEALING 7 AUTOS AND ROBBING 2 WOMEN

Pelle Poles, Abandoning Them After a Time.

Two policemen, noticing that the motor plate of a Chevrolet touring car parked before a restaurant at 3170 South Grand boulevard had been tampered with, as if to conceal the true number, arrested a 16-year-old youth, who confessed last night to the theft of seven automobiles.

The youth, who had been eating in the restaurant at the time of the arrest at 5 a. m. yesterday, said he was Kenneth Kramer, 3650A Arsenal street. He admitted he had stolen the Chevrolet touring car, and the other six cars, which he had stolen from the restaurant at 11 o'clock last night, and the night of Dec. 15. The car belonged to Edward Robbins, 5957 Neosho street.

Kramer told how he had taken six other machines since October, using them for joyrides and abandoning each machine after a time. He also confessed to holding up two women near 3660 Connecticut street the night of Dec. 8 and robbing them of \$2.50. The women, Mrs. Blanche Brown and Mrs. Bernard Bleck of 2852 Wyoming street, identified Kramer as the boy who had robbed them.

RAAC H. COHN'S WILL, FILED TODAY, LEAVES ALL TO WIDOW

Attorney Disclaims Knowledge of Estate's Value Aside From \$425,000 Life Insurance.

The will of Isaac H. Cohn of 726 Eastgate avenue, president of the North American Electric Lamp Co. and the National Steel Rail Co., who shot and killed himself in an automobile in Forest Park Tuesday, was filed today. His estate is valued at \$425,000, which the will leaves to his widow, Ella E., who is made executrix without bond.

The one-page typewritten will was dated Oct. 11, 1919, and says the maker was then sound, mentally and physically. Witnesses were Cohn's attorney, Albert Arminstein, and the latter's brother, Herbert Arminstein. Mrs. Cohn today accompanied the attorney to Probate Court to have the will filed.

Attorney Arminstein said he did not know the value of the estate, aside from the \$425,000 in life insurance which Cohn carried.

Ruins of Dwelling Where 9-Year-Old Boy Died in Fire



Ruins of the residence of Mr. and Mrs. John Pape at 6243 Spencer place, in which their 9-year-old son, David, was burned to death last night. The two-story frame building was destroyed, only the brick chimney standing, and residences on both sides were damaged.

BOY BURNED TO DEATH; FATHER SAVES ANOTHER AND BREAKS HIS NECK

John Pape, Returning From Work, Finds House Afire and Dashes Upstairs.

David, 9-year-old son of Mr. and Mrs. John Pape, of 6243 Spencer place, St. Louis County, was burned to death in a fire that destroyed the family residence last night. Six members of the family, including four small children, were sleeping on the second floor, another was reading downstairs and two others were approaching the house when a coal stove exploded at 10:45 o'clock, causing the fire.

John Pape, who was returning home from work, accompanied by his 14-year-old son, Alvin, dashed upstairs and into the bedroom where David and a brother, Eugene, 5, had been sleeping. Groping through flame and smoke, the father found Eugene, wandering about as if dazed, and carried him to the street. He started back for David, but could not get up the burning stairway.

Simpson, George Pape, 19, the eldest son, who had been reading in the living room, where the stove exploded, had aroused other members of the family and they escaped down the stairway and into the street, in night attire. They were Mrs. Pape, her 75-year-old mother, Mrs. Nancy Terry, and the other children, Violet, 12, and Eschell, 2.

Only chimney remains.

The stove which exploded was not far from the one stairway, and when it was learned that one child still remained in the flaming house, it was too late to save David. Whether he died in bed or while seeking an escape could not be determined, as the building and furnishings were consumed. Only the brick chimney remained erect, and closed both draft and damper shortly before the explosion.

Aid Asked for Family.

Those members of the family who escaped death had no opportunity to have even their apparel from the flames. They found refuge for the night at the home of Pape's mother, Mrs. Esther Pape, 5528 Clark avenue.

The family of John Pape, who is employed as a watchman at David's A. Grand boulevard and Hickory street, is in poor financial circumstances. Practically everything they owned was lost in the fire. They rented the house.

Members of the family of the University Presbyterian Church, 6166 Delmar boulevard, which Pape attended, the Rev. Dr. James Hardin Smith today donated \$100 toward a fund to help the Pape family.

Whether he died in bed or while seeking an escape could not be determined, as the building and furnishings were consumed. Only the brick chimney remained erect, and closed both draft and damper shortly before the explosion.

Fraternity House Is Damaged by Fire.

Twenty-seven fire alarms were sounded in St. Louis from 12 p. m. yesterday to 6 a. m. today. Most of the fires were caused by overheating.

A number of Washington University students, residing in the Sigma Tau Omega fraternity house at 400 Skinker road, were compelled to flee to the street by a fire there at 11 o'clock last night, which damaged the three-story brick building \$4000 and the contents \$2000. An overheated furnace in the basement started the fire.

Eleven students reside at the house, but not all were there when the fire broke out. Two who had retired appeared in their pajamas at second-floor windows and decended by means of ladders. Fire departments of St. Louis and Clayton responded to the alarms.

Fire in Drug Store Spreads to Frame Structure at 5534 Van.

The Arcade, a two-story brick and frame structure at 5534 Van, was discovered to be on fire at 1:10 a. m. today, a time when the dance hall on the second floor conducted by Mrs. Anna F. Bates and the first-floor pharmacy conducted by Carl N. Klein were deserted. Police reported the fire originated behind the prescription

Continued From Page One.

region, had the highest temperature in the country this morning, and that was only 68 degrees. It snowed at Corpus Christi, Tex., last night and was snowing at Shreveport, La., today, while Galveston, Tex., was experiencing sleet. As yesterday, Lander, Wyo., is the country's coldest spot, with the temperature at 36 below zero today.

Today's weather map showed the line of approximate zero temperature running from Fort Snelling, Ind., through St. Louis, Springfield, Mo., Oklahoma City, Ok., and across the Texas Panhandle, with below-zero weather north of the line and above-zero weather below it.

One Above Zero.

The lowest temperature reached in St. Louis was 1 degree above zero, at 7:30 a. m. today, the mercury having dropped slowly since yesterday afternoon, when it was 10. A slight rise began this morning, but a minimum of 10 degrees is predicted for tonight again in St. Louis.

The Weather Bureau thinks some moderation may begin by tomorrow night. The Mississippi River is full of floating ice blocks. Frost over the entire country. Weather recorded here was 10 below, on Dec. 20, 1901, 22 years ago today.

Eight deaths were caused by the storm and cold weather, directly or indirectly, in St. Louis, Kansas and Oklahoma, it was reported. Property damage here and elsewhere is in hundreds of thousands of dollars.

Chief of Police O'Brien last night issued a general order instructing district captains to give a night's shelter and a breakfast of hot coffee and rolls to all who applied, owing to the crowded conditions of six transient houses. House, which cared for 810 persons last night. More than 50 men took advantage of the offer and slept at the various stations.

Morger Press Reports.

This morning there was one leased wire between here and Chicago, which was being used by the Associated Press and other press associations as their only connection for national and international news. It was split between them and only a small percentage of the usual news was received. Last night the Associated Press used a Pennsylvania Railroad wire for three hours to receive news from Chicago and a Louisville & Nashville Railroad wire for a similar period to receive news from Nashville, Tenn., and later borrowed a Western Union wire to Chicago for news from Springfield, Ill., was reported to have been without wire connections of any kind since Thursday afternoon.

This afternoon the Chicago connection for national and international news was obtained exclusively use of a direct wire to New York and another wire to New York via Memphis, Tenn., and Atlanta, Ga.

Telegraph Companies Have Wires to Principal Cities.

The Postal Telegraph Co. was able to communicate today with most of the larger cities by circuitous routes. New York and Cincinnati were reached by way of Memphis, Tenn., and Birmingham, Ala. Kansas City is reached from St. Louis by way of Dallas, Tex.

The company has not yet opened communication with Jefferson City, but 20 linesmen are en route expected to clear the way during the day. In all there are more than 100 repairmen working in the vicinity. Most of the small towns in this district are cut off completely.

Western Union wires, with the exception of those to small towns within a radius of 150 miles, are reported in fair shape. Communication with New York, Chicago, Kansas City and other points has been established and messages go through with little delay. Jefferson City is reached by way of Kansas City. More than 500 linemen are working in the country within 150 miles of St. Louis, and it is believed that they will have the wires up by tonight.

Incoming Mails Delayed, Extra Clerks Get Day Off.

One of the results of the storm and cold wave was to throw out of employment, which was at least only temporary, 450 clerks and carriers in repair work on the handling of Christmas mail here.

Superintendent of Mails Prange said he would not put his extra crew to work because of the tieup, but he declared he hoped by tomorrow the situation would be considerably improved and the extra employees would be needed.

Virtually no mail is being received from the North and West, and little from the East and a normal delivery from the South. Because there is little by city mail to be handled the large corps of clerks and carriers are enjoying what almost amounts to a holiday.

When the delayed mail begins to arrive and pile up, watch "em work," he added.

Tons of outgoing parcel post packages—Christmas presents for the most—are stacked in the subway of Union Station, awaiting trains. While the clerical force of the postoffice is in holiday mood, the postoffice is in holiday mood, the outward flow of Christmas cheer is blocked at the station, due to the disorganization of train schedules by the cold wave.

Incoming mail is cleared away rapidly, but due to the delay in the arrival of some trains and cancellation of others, St. Louisans may not receive all their Christmas presents until after Christmas.

\$300,000 Damage to Telephone Property in District.

Present estimates place the total damage to local telephone property

St. Louis Ice Bound in Near-Zero Weather

Due to the storm at \$300,000, says the Telephone Bell Telephone Co. in announcing that this was the most widespread property destruction in local telephone history. The company printed the following newspaper advertisement today:

"Thousands of telephones were out of service. At least 1000 poles and 12,000 feet of cable in St. Louis were carried down by the weight of ice and falling boughs. Toll lines from St. Louis to practically all points have been put out of service. Immediately the destructive nature of the storm became apparent Thursday night, hundreds of men were sent out on the work of restoration and repair, and approximately 700 men are now on the job.

"Installations of new telephones and construction work necessarily must be suspended until all existing lines have been restored. We are bending every effort to complete restoration service in the shortest possible time.

8000 Phones Out in City.

The only long-distance telephone lines out of St. Louis today were single circuits each to Chicago, Pittsburg and New York, though it was hoped additional circuits would be opened during the day.

There is virtually no telephone service in St. Louis County, St. Charles, Eureka, Valley Park, Ferguson, Alton and Edwardsville are among the communities which cannot be reached by telephone, but Belleville can be.

Trouble in St. Louis and East St. Louis is scattering, with about 8000 telephones estimated to be out of commission in this city. The trouble here is due not so much to breaks of ice-laden individual lines as to the collapse of poles and big groups of wires.

Service of the Southwestern Bell Telephone Co. is disrupted throughout five states—Missouri, Kansas, Arkansas, Oklahoma and Texas. For example, between 5000 and 6000 poles are estimated to be down in the eastern part of Missouri; 1000, almost everywhere, are down between here and Gray Summit, about 40 miles west; more than 700 are down between Troy and Louisiana, Mo.; 2000 are down between here and Poplar Bluff, Mo.; and 1500 are down between here and Springfield, Mo.

"Between St. Louis and Chicago about 1200 poles are down.

Food Shortage Here Improbable, Dealers Say.

Danger of a food shortage in St. Louis, resulting from the tieup of railroads, is negligible, leading dealers in groceries and produce said today.

Reports reaching produce men and wholesale grocers indicate the tieup will be of short duration, and would not be so serious as reports of the tieup in the city's warehouses, which, they say, are normally sufficient to feed the city for more than a week.

W. G. Rath, produce merchant, said: "The real effect of the storm here, so far as our line of business is concerned, is to give us a badly needed opportunity to unload and put on the market what we already have without interference from competitive shipments. The city will not suffer from lack of nourishment, in my judgment."

W. M. James, president of the Scudder-Gale Grocery Co., declared in his opinion there is no danger of a food shortage. "We have supplies here for a week or longer," he said, "and I am informed the normal movement of railroad traffic will be resumed before that time. We do not have to be in business we anticipate this condition each year. Our customers are warned of this possibility and smart retailers generally keep their stocks up well in advance of the same and therefore are in a position to meet emergencies of this character without any difficulty."

County Car Lines, Except on St. Charles Route, to Resume Today.

With more than 1000 men working in repair work on county street car lines since Thursday night, United Railways officials said today that service on all lines, with the exception of the St. Charles line, is expected to be resumed sufficiently today to permit cars to operate over their entire routes.

Service on the St. Charles line, which suffered most from the storm, will likely be resumed before the early part of next week, officials stated.

Lines which have not operated since the storm broke, but which are expected to resume operation today, are: Creve Coeur line from Crow's Nest to western terminus; Manchester line from Kirkwood to the southern terminus at Geyer loop; Florissant line from Ramon

St. Louis Ice Bound in Near-Zero Weather

holidays, are in the crowds.

East today, the Price "Meteor" and the Price-Katy "Texas Special," which left here Thursday evening, had not reached Springfield, Mo., and railroad officials there did not know where they were.

Passengers of incoming trains passing the Washington avenue station at Eads Bridge are requested to alight there, with the explanation that the delay in the yards between there and Union Station is two hours or more.

Cold Weather and Slippery Streets Delay Coal Deliveries.

Many persons whose coal supply has run short, due to the sudden advent of near-zero weather, are experiencing difficulty in getting prompt delivery from dealers. The dealers' trouble is not due to shortage of coal, but to the slippery streets, which make hauling difficult, and to the bitter cold that slows up handling of the fuel.

Wholesale dealers today said there were between 60,000 and 80,000 tons of coal stored in the city against just such an emergency and that, even without any additional shipments, this surplus will take care of the demand for 10 days or two weeks. No actual shortage is anticipated.

Electric Service in County to Be Restored by Midnight Tomorrow.

Restoration of electric service generally in Western Groves, Kirkwood and the Meramec Valley, the district which suffered most from the electric storm and cold Thursday night, is expected some time between noon and midnight tomorrow, Louis H. Egan, president of the Union Electric Light & Power Co., announced today.

All of that territory is served by a main electric line running out the Olive street right-of-way, which, including poles and wires, went down under the weight of ice. Egan said the work of restoration first required the clearing of the wreckage, which included telephone as well as electric wires. This work was completed this morning and construction work begun.

The regular county forces of the Union Electric have been augmented by crews from the city and from other construction work the company has under way.

Egan said service had been restored in all parts of the city, except a few isolated cases, usually wires leading from the pole lines to residences.

The Union Electric today published display advertisements in St. Louis newspapers, explaining the situation and issuing a warning to the public, particularly children, to avoid dangling wires. The notice follows:

"Thursday night's electric storm, the worst in the history of St. Louis as measured by damage to this company's electrical distribution system, completely disrupted service in St. Louis County and as far west on our lines as Franklin County. Trees falling across wires made the damage widespread. Damage to city lines was relatively less severe and affects scattered, isolated areas.

"Grew totaling several hundred men, representing every emergency resource of the company, are at work on repairs. It is not possible to predict when service will be completely restored. However, the company will continue to exert its unceasing maximum efforts to re-establish service as quickly as possible. Our first endeavor will be to relieve customers who are in distress through the efforts of the storm. Others, to whom the storm brought only temporary inconvenience, will be patient, we feel sure.

Man, Wife and Baby Burn to Death in Wyoming.

DENVER, Colo., Dec. 20.—Indications today pointed to a swing back toward normalcy in temperatures for the entire Rocky Mountain region.

Montana and Colorado, the last to feel relief after five days of bitter cold, reported rising mercury and fair skies. Montana, however, reported two more deaths due to the cold weather. A man was found frozen to death south of Butte, and a woman was frozen to death in her cabin in an isolated section in the Butte district.

The most appalling tragedy of the last 24 hours was reported at Casper, Wyo., where Otto Lund, his wife and their 6-month-old infant were burned to death when their home was destroyed by fire.

Union Station Jammed by Persons Inconvenienced by Train Delays.

Some improvement in train service, but not a great deal, was noticeable at Union Station today, but there were still long delays in arrival and departure of trains, and about 3000 persons filled the waiting rooms and pressed in vain for information about train movements at the information bureau.

Fallen off railroad telegraph wires because of the ice and cold and clogging of switch and signal systems at this and other terminals for the same reason, explains the trouble of trains. Superintendents and dispatchers have been without knowledge of train movements on many divisions for almost 48 hours.

Of 143 trains due to arrive between midnight Thursday and last midnight, 114 did reach Union Station, but all late. Of 143 due to depart in the same period, 103 left the station. Some trains were consolidated. The trouble was cumulative, and some trains departed late only because the equipment needed to make them up had arrived late.

Pacific Island Tower Grove Station.

A number of trains due yesterday morning arrived in the afternoon and evening, and some trains that should have left before last midnight pulled out at dawn today. The Missouri Pacific Railroad is not running its through trains in and out of Union Station, but is using Tower Grove Station as a terminal and transporting passengers between the two stations. The road's "Sunshine Special," to and from Texas, will make flag stops at South Broadway Station temporarily.

Some suburban trains were operated past Union Station, and to Sevier and Poplar streets.

The train called made a reappearance at Union Station today because of the inability to give the crowd information about trains otherwise. Many college students, endeavoring to get home for the holidays, are in the crowds.

IMPORTANT AUCTION SALE

NOW GOING ON

Rose Room, Hotel Buckingham

THE CATTADORI COLLECTION

From Venice and Milan, Italy

—of—

Antique Italian Furniture
Flemish and Gothic Tapestries
300 Pieces of Antique Velvets, Brocades,
Embroideries and Needle Points.
Wrought Iron Works
Primitive and Decorative Paintings
Real Lace and Table Linens, Embroidered Venetian Shawls

Sale Starts 2:30 P. M. and 8:15 P. M.
December 20, 22, 23

Afternoons at 2:30 Evenings at 8:15

A. A. SELKIRK AUCTION & STORAGE CO.
MAIN 1688 AUCTIONEERS MAIN 1682

Agents Uptown Store

Olive St. at Vandeventer

—Open—

Every Night

—Until 9 P. M.—

Now to Xmas

Woodward Says It's a Simplex

By Marnel Hahn.

Too few of our novelists give us anything of a pure scientific nature. Too often they find facts that if properly studied would lead to a complete revision of our accepted theories, only to drop them in a mass of fine literature that leaves mere fact suspended for a grubby scientist to rediscover.

Not so with W. E. Woodward. It is but a year since all the world was stunned by his discovery of the importance of being second rate. His philosophic treatise on that subject (called "Bunk") was eagerly studied by all coming writers, physicians, merchants and bankers. In his pitiless exposure of the success of a predatory wealth-baron, he gave to the world a priceless secret.

And so, in his latest work, "The Simplex" (Harper), the conversational manner he assumes, with the newspaper headlines for chapter subjects, reaches no further than the third chapter, when the greatest discovery of our modern age is thrust upon us: The Freudian Simplex is announced.

COMPLEXES, both Freudian and post-Freudian, are with us in every-day life. We find a man who pleases us in every way, except that he is too aggressive.

"Aha," we say. "Here is a clear case of the inferiority complex. This fellow is really obsessed with the idea that he is inferior to us. So to disguise it, he transcends everything we might expect of him."

But of the Freudian Simplex, we have hitherto known naught. In fact, the author admits that Dr. Freud has "not yet discussed the matter on a fond—but, it will probably be the theme of his next monumental work. It is the exact opposite of the Freudian complex.

"Persons afflicted with a Freudian simplex have no misgivings of any kind, and no involved mental constructions. Analysis shows reticence appearing only in thin streaks, and remorse in microscopic traces. Egotism and vanity in large quantities and bullet-proof."

Equipped with his Freudian Simplex, Jerry Garrison set forth in the world and made a fortune. Just like that. Of course, he was second-rate, but he made it.

JERRY'S struggles with respectability, his careless but financially lucky marriage, his use of all people for his own ends, though he did not know it, give the Woodwardian knife plenty of opportunity to stab and cut at will. Woodward has a remarkable ability to the caustic without seeming so. He always permeates his stories. He is preaching a gospel, a gospel of Woodwardian socialism (which is not Marxian).

The style is open, full of remarkable cleverness at times fringing on the facetious. But only fringing. Facetious enough to catch the mind, deep enough to avoid facetiousness. It is the type of cleverness that does not obtrude itself. The reader passes over a sentence. Then he stops.

"That was fine," he whispers. "I must read it over. By God, that man is good. I must be brighter than I thought to get that."

It is a splendid gift, and makes Woodward's writings always acceptable. And do not forget that they are written with a purpose.

IN THE PILLS
A Volume of Verse
by THEODORE MARBURG
With illustrations by F. Le Bond
A collection of unusual poems by one of America's most distinguished humorists. There are many verse forms represented and the subjects are diverse in character and treatment. All are marked by an elevated spirit and a high degree of social criticism to beauty in all forms. You will find pleasure in this book of verse, as well as philosophical profit.

G. P. Putnam's Sons
New York London

By Temple Bailey.

First Printing 50,000

Cover by Coles Phillips

At All Bookstores \$2.00

The Store of Worth-While Gifts on Credit
WHERE YOU ALWAYS GET MORE FOR YOUR MONEY

LOFTIS BROS. & CO. EST'D 1858 717 OLIVE ST

DIAMONDS-WATCHES
Genuine Diamonds Guaranteed
CASH CREDIT
DIAMONDS GIFTS WATCHES GIFTS

It's Hurry Now to Complete Your Christmas Shopping!
No need to omit any gift or to forego a "Merry Christmas" because of lack of ready money. WE TRUST THE PEOPLE Come in TODAY and add as many gifts as you wish to your list. Have all charged in one account—pay as suits your convenience.

DIAMOND RINGS
These Exquisite Diamond Rings are all Solid 18-k White Gold, set with First Quality, radiant Diamonds.
YOUR CHOICE

\$100
\$2.50 A WEEK

The Best Christmas Gift of All
A Genuine Diamond Ring

Visit our store—you will find all the latest styles in Diamond Rings for ladies and men. Solid White and Green Gold and Platinum, in basket and the new prong mountings, specially selected and displayed for Christmas Presents. We invite comparison of quality and price. We want YOU to open a charge account. YOU arrange the terms. It's easier to make worth-while presents than to pay cash for trifles when you deal with LOFTIS.

NO MONEY DOWN

"Trianon" Diamond Ring
Three splendid Blue White Diamonds, Ring is Solid 18-k White Gold, has a diamond set in a diamond. \$150 \$3.75 a Week

Black Onyx Diamond-set Ring
Genuine Black Onyx, 18-k White Gold, broad prong. The Diamond is brilliant and blue white. \$37.50 \$1.00 a Week

Diamond and Sapphire Scarf Pin
Brilliant Blue White Diamond and 2 Sapphires. Platinum on Solid 18-k White Gold. Very special at \$75 \$1.75 a Week

Diamond Cuff Links
Octagon shape, set with 2 x 3 x 4 Platinum on Solid White Gold Two. \$25 \$2.50 A MONTH

"Apollo" Diamond Ring
Brilliant Blue White Diamond, Solid 14-k Green Gold with Solid 18-k White Gold top, or all Solid 18-k White Gold. \$100 \$2.50 a Week

17-Jewel Elgin
Case is high-grade Green Gold filled warranted to wear 25 years. \$34 \$1.00 a Week

VERY SPECIAL

Rectangular Wrist Watch, Solid 18-k White Gold, 17 jewels. An ideal gift. \$27.50
Same 15 Jewels.....\$21.00

Terms: \$1.00 a Week

Beautiful White Gold filled Wrist Watch, cushion, octagon and roman shapes. 16 jewels guaranteed 25 years. \$10.50
50c A WEEK

Small rectangular Wrist Watch, Solid 18-k White Gold set with 4 Diamonds and 2 Sapphires. High grade 17-jewel movement. Fancy dial. \$15
Terms: \$1.75 a Week

Open Every Night Until Christmas—and Sunday
Watch Our Store Windows for Special Bargains

LOFTIS
BROS. & CO. EST'D 1858
The Old Reliable, Original Diamond and Watch Credit House—Largest in the World
717 OLIVE STREET

MRS. MORTIMER'S PARENTS ASSAIL "FIXER'S" STORY

They Declare That Mortimer Was Bitter Because Forbes Did Not Make Him Rich.

BY PAUL Y. ANDERSON,
A Staff Correspondent of the Post-Dispatch.

CHICAGO, Dec. 28.—A vigorous impeachment of Elias H. Mortimer's testimony in the Government conspiracy case against Charles R. Forbes and John W. Thompson is being conducted by the defense. Both his testimony and his character were assailed in sanguine fashion yesterday. His wife's parents being the principal witnesses.

This line of evidence was taken up at the close of the cross-examination by Government counsel of Miss Edna Brees, the Veterans' Bureau stenographer, who on the previous day had built up a seemingly airtight case for Forbes and Thompson on the \$5000 bribe charge. Miss Brees answered somewhat under grilling, but stuck to the main outline of her story.

Dr. and Mrs. George B. Tullidge of Philadelphia, the parents of Mortimer's wife, testified that they had repeatedly heard him threaten to "get" Forbes, and had heard him say his animosity arose from Forbes' refusal to "make him rich with contracts" while Forbes was head of the Veterans' Bureau. This bore out the defense's earlier intimation that an effort would be made to attribute Mortimer's spite to disappointed cupidity as well as to jealousy over Forbes' alleged attentions to Mrs. Mortimer.

"I asked Mortimer once why he was so bitter against Col. Forbes," Dr. Tullidge said. "He replied that Forbes could have made him rich in contracts and wouldn't do it. He said he was going to get even with Forbes if he had to swear himself into jail to do it. He told us he was willing to take 10 years in prison for the sake of putting Forbes behind the bars."

"If I can't get him one way, I will another," he said, and he told Mrs. Tullidge and me that if we didn't make Kathryn (Mrs. Mortimer) line up with him against Forbes, he would drag her name through the mire."

"Did he?" asked Attorney Easby-Smith. "Tell you the day before he testified at the Senate Committee hearing, that he was going down to Washington the next day and swear his soul to hell to get that was the substance of what he said."

"And the next evening, after he had testified, didn't he come to your home in Philadelphia, and try to persuade Mrs. Mortimer to go down before the Senate Committee and corroborate his statement by saying she saw him give Forbes \$5000 in a bathroom in the Drake Hotel in Chicago?"

"He did."

"What did she say?"

"She told him she couldn't say that, because she never saw it, and she pointed out that it would have been impossible, if his story were true, because he had testified the bathroom door was shut."

"And then he asked her to say she saw him enter the bathroom with Forbes, with the money in his hand, didn't he?"

"He did, and she refused."

Wife Corroborates Testimony.
This testimony was repeated, almost word for word, by Mrs. Tullidge. The Tullidges are elderly, and both infirm.

The conversations which they described took place in August, September and October of 1923, they said. At that time Mortimer had been separated from his wife for a year.

Another witness during the day was William M. Sutherland of St. Louis, president of the W. M. Sutherland Contracting Co., which also had been mentioned by Mortimer in an unfavorable aspect. Mortimer testified that William McCauley, Washington agent for Sutherland, gave him \$3500, and that he gave \$1500 of it to Forbes as a bribe to award the Tupper Lake (New York) foundation contract to Sutherland. That firm got the contract, which amounted to \$42,000, and also got a supplementary job of \$52,000 without bidding.

Sutherland's position is uncomfortable, and his demeanor on the witness stand plainly showed it. The Government has never taken any action in the Tupper Lake matter, but it is known that civil suits are in contemplation to recover part of the money paid out on the work. Sutherland testified

for the defense with obvious reluctance.

He said McCauley introduced Mortimer to him in Washington on Oct. 10, 1922, the day before the bids on the Upper Lake superstructure were opened. All these bids were higher than the appropriation, and that he was going to ask the Navy Department to revise the plans and bring them within the available fund. He said he would like to have the contractors refigure the job. He asked us if McCauley represented us in Washington, but before I could reply Mortimer said, "McCauley is their general representative, but I'm looking after this matter for them."

"Was he?" counsel asked.

"He was not."

"Did you speak up and deny it?" the court interjected.

"I did not."

Mortimer and Williams then departed, and Forbes asked Sutherland to remain a moment, the latter continued.

"He asked me how well I knew Mortimer and I told him I had only met him the day before, and was very much surprised to hear him say he represented us," said Sutherland. "Col. Forbes said, 'I've been hearing some things about Mortimer lately, and my advice to you is to have nothing to do with him. He has presumed on my friendship.'"

On direct examination Mortimer testified that, about this time, he had several violent quarrels with Forbes over Mrs. Mortimer.

Sutherland said he and Williams encountered Mortimer in a restaurant that night, and Williams called Mortimer "a damned liar" and on the stand, told an identical story.

Cross-Examination of Stenographer.
The cross-examination of Miss Brees by Special Prosecutor Ralph Potter developed considerable uncertainty in her mind about what might have happened in the Forbes-Mortimer suite at the Drake Hotel June 20, 1922, the day Mortimer says he got \$10,000 from Thompson and gave \$5000 of it to Forbes in her direct testimony.

she was positive that Forbes Mortimer and Thompson were not in Mortimer's room during the afternoon, when Mortimer said the money was passed.

She admitted to Potter, however, that any number of persons might have come and gone without her knowledge as she was in a reception room outside and he view did not command one entrance to the suite Mortimer said the money was passed about 4:30 while a merry party of several persons were drinking and playing dice.

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"Hats Off to the Men Who Man the Busses"

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St. Louis Surfer & Paint Company
5428 Hazel Avenue
has resulted from the use of
Gas as Fuel

This Company uses portable varnish kettles for which the heating apparatus is built into the concrete floor of the factory. The heat chambers, 24 inches in diameter by 5 inches deep, are lined with fire brick and partly filled with broken carborundum. Four Surface Combustion burners project into each heat chamber a perfect mixture of gas and air which soon brings the carborundum bed to a state of incandescence. The resulting radiant heat is the best method of carrying on this operation. Ashes, dust, smoke, inconvenience of fire-building and replenishment, cost of fuel storage and depreciation and the uneven heat of the old system have been eliminated.

Arrows Point to Heat Chambers Under Kettles.

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LANE'S PILLS
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TAKE ONE TONIGHT—SOLD EVERYWHERE

Marriage Licenses Births Recorded Burial Permits

MARRIAGE LICENSES

James Frank Starnes--Mrs. Grace L. Copeland.

Thomas Morgan--Mrs. Mary Bond.

James Jackson--Mrs. Mary Bond.

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James Jackson--Mrs. Mary Bond.

QUESTIONS

The Post-Dispatch reserves the right to reject any query.

A COUNTRY READER--The following material is required for the concrete wall: 16 bags of cement, 25 tons of sand and 27 tons of stone, 1-3-5 mix.

B. G. At a dinner to be given on the eve of the New Year's Eve, a lovely table decoration is the New Year's wish tree.

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4 to 7 rooms. Electric. Call 1234.

Manager at building. Cabany 1138.

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CASH LOAN & INVESTMENT CO.

1509 Chestnut St. Call 1234.

MONEY TO LOAN--\$500 to \$50,000

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EDDIE MARTIN

Former Champion Ruins Chance by Constant Holding

New Fistic King Is 21 Years' Old and Is of Italian Ancestry.

REAL NAME IS MARTINO

Only Two Defeats in His Record Were His First Bout as an Amateur.

NEW YORK, Dec. 20.—The world awoke today to find a new champion and the shoes of "Terrible Terry" McGovern of Brooklyn were filled once again.

Eddie (Cannonball) Martin, intensely nervous, yet plunging into the battle with an attack that knew no quarter, stood forth as the world's greatest bantamweight boxer by his victory over Abe Goldstein of New York at Madison Square Garden last night. Newspaper men agreed that Martin earned his honors.

McGovern accomplished the feat in 1899 before Martin was born, and the present king of the midges never saw the old master in action. But their styles, consisting mainly of relentless aggression, are said to be strikingly similar.

Martin, whose real name is Martino, is one of a family of 14 children. He was born 21 years ago in Brooklyn of Italian parents. He started his career as an amateur and the only two reverses he has ever known were suffered in the first bouts he entered. Since becoming a professional, he has participated in two draw matches, but never has suffered defeat in 64 contests. He won 22 by knockouts.

Goldstein Resorts to Clinching. Goldstein lost his belt by taking the defensive after the first three rounds and acquiescing to the fighting methods that Martin employed.

At the start the former champion fought as he did when he was climbing the ladder to the crown. A clever and fast boxer, he stood away and shot in like his opponent's face, and drove heavy blows to the body.

But Martin would not stop. He kept plunging in, shaking off the blows and smiling at the blows until he forced Goldstein into clinching. With his method established, Martin drove to the stomach and up-percut to the head. His adversary was no match for him at this time. Round after round saw him forcing the fighting, giving double for what he received.

Goldstein, on the other hand, was hugging after the first round and was cautioned by the referee. At three Martin was compelled to use football tactics in releasing himself.

Carl Tremaine of Cleveland defeated Sonny Smith of Brooklyn in the semi-final bout. Tremaine got the judge's decision by a margin of eight rounds. It was a whirlwind of arms, but no knockdowns, as had been expected.

Rockne Completes Football Schedule

Teams From All Sections but Pacific Coast Have Place On Notre Dame's List.

SOUTH BEND, Ind., Dec. 20.—After ironing out various conflicts and other difficulties that necessitated a change in his 1925 football schedule, Coach Knute Rockne announced last night that Minnesota would be played at Minneapolis on Oct. 24, and Penn State would be met at State College on Nov. 7.

The revised card is as follows: Baylor University at Notre Dame, Sept. 27. Lombard at Notre Dame, Oct. 1.

Beloit at Notre Dame, Oct. 18. Army at New York (Yank Stadium), Oct. 17. Minnesota at Minneapolis, Oct. 24.

Georgia Tech. at Atlanta, Oct. 21. Penn State at State College, Nov. 7. Carnegie Tech. at Notre Dame, Nov. 14.

Northwestern at Notre Dame, Nov. 21. Nebraska at Lincoln, Nov. 28 (Thanksgiving day).

Billikens Beat Indiana Normal

Special to the Post-Dispatch. DANVILLE, Ind., Dec. 20.—St. Louis University's strong basketball team defeated the Danville Central Normal School tonight here last night, 21 to 12. At the end of the first half the score stood 12 to 5 in favor of the visitors.

The visiting team showed superiority in passing and had the game well in hand at all times. W. Bradburn and Kapl each scored three field goals for St. Louis.

ILLINOIS GOLFERS FAVOR CALIFORNIA

CHICAGO, Dec. 20.—A campaign was started yesterday by the Illinois Professional Golfers' Association to take the national open golf championship for 1926 to California at some date in February.

Indoor Sports



Piker Swimmers To Open Season

Washington Aquatic Team Opposes Strong Squad From the North Side "Y."

Washington University's swimming team, champion of the Missouri Valley Conference, will make its initial appearance of the season tonight in a dual meet with the North Side "Y. M. C. A. team at Wilson Pool on the Piker campus.

The meet will start at 8 o'clock and will be open to the public without charge.

Coach Johnson's Pikers had little difficulty in disposing of the "Y" team in their meet last year. Tonight, however, Washington is expected to encounter unusually strong competition. The Washington outfit is at least as strong as it was last year, but Coach Singer of the "Y" has recruited an exceptionally capable group of swimmers which will make tonight's meet a hard one to win.

Heideman Many Champion. On the North Side team are man, holder of the "Y" backstroke title. Gentry, a very good freestyle swimmer, who is said to have placed second to the Hungarian champion, and "Frenchy" Braque, who is one of the fastest local freestyle swimmers at 100 and 220 yards.

With the exception of two men, last year's entire championship "Piker" team is again available, in addition to several freshmen swimmers now eligible. "Doc" Heideman, captain and conference champion in the 100 and 220-yard races, will be in action tonight. Last year's splendid relay team, with Ledbetter, Specht, Heideman, and "Frenchy" Braque, is expected to have a fine duel with the Heideman and Braque.

Water Basket Ball Game Scheduled. An exhibition water basket ball game between two Washington teams will complete the program.

The entries and order of events: 100-YARD FREE STYLE SWIMMING—Washington, Heideman; North Side, Gentry. 200-YARD FREE STYLE SWIMMING—Washington, Heideman; North Side, Gentry. 100-YARD BACK STROKE—Washington, Heideman; North Side, Gentry. 100-YARD BREAST STROKE—Washington, Heideman; North Side, Gentry. 100-YARD FREESTYLE SWIMMING—Washington, Heideman; North Side, Gentry. 100-YARD BACK STROKE—Washington, Heideman; North Side, Gentry. 100-YARD BREAST STROKE—Washington, Heideman; North Side, Gentry.

64 BOWLERS TO ROLL IN CLASSIC TOURNEY. Sixty-four bowlers will strive for honors in the second individual classic tournament of eight games, total pins to count, to start on the Washington alleys tonight. Two squads have scheduled to roll tonight and a like number tomorrow. The last event was won by Walter Kuhnert.

Tonight, 8 O'Clock. John J. Jaber-Fred Hager. George Mettler-Wm. Dietz. George Mettler-Jack Thuermer. Cliff Hubert-Art Schick. Tomorrow, 8 O'Clock. Tom Cohen-Karl Kowalski. Walter Kuhnert-Kowalski. Tom Cohen-Karl Kowalski. Walter Kuhnert-Kowalski. Tom Cohen-Karl Kowalski. Walter Kuhnert-Kowalski.

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Wray's Column

In Re Hornsby. THE fable of the men who fought because each had read the inscription on only one side of the shield, seems to have a parallel in the case of the St. Louis writers who protested the omission of the name of Hornsby from the ballot of one member of the most valuable player commissions which recently selected Vance of Brooklyn.

The writers here thought it impossible that 10 men more valuable to their respective teams than Hornsby was to the Cardinals could be found in the National League.

But the commissioner who omitted Hornsby from his ballot thinks and argues from his own viewpoint, which is exactly opposite. He is Jack Ryder of the Cincinnati Enquirer, a baseball writer with 25 years' experience. Apparently he sees the other side of the shield from that viewed by the local writers.

In a letter to the Post-Dispatch Mr. Ryder sets forth his views, in part as follows:

"My reason for omitting Hornsby from my list in the balloting for the player 'most valuable to your team' was that, in my judgment, there were 10 men more valuable to their respective clubs. This is in no sense a knock at drawing attention, either artistically or financially, in spite of his recognized individual prowess.

"The balloting in this contest was based on value to a team in the way of helping to improve the standing of the team in the race and making it an aggregation attractive to the fans of the home city and abroad. My judgment may be still, it is that there were 10 players in the league who were more useful to their teams along those lines than Hornsby.

Omitted Name of Friend. "In New York last week I told Fred Lieb, chairman of the committee, to inform all magnates and actors present that I was the alleged 'guilty party' thus, I hope, nullifying the charge that I was a 'bought' man.

"I have no objection to my name being placed on the list, but I do not wish to be included in the list of 'bought' men. I am not a 'bought' man, and I do not wish to be included in the list of 'bought' men.

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Racing Results And Entries

At Jefferson Park.

Weather, cloudy; track, fast.

FIRST RACE, 5:00 p.m., claiming, 3-year-olds and up, mile and 70 yards—1st, Glen, 107; 2nd, Quaker, 109; 3rd, 108; 4th, 106; 5th, 105; 6th, 104; 7th, 103; 8th, 102; 9th, 101; 10th, 100; 11th, 99; 12th, 98; 13th, 97; 14th, 96; 15th, 95; 16th, 94; 17th, 93; 18th, 92; 19th, 91; 20th, 90; 21st, 89; 22nd, 88; 23rd, 87; 24th, 86; 25th, 85; 26th, 84; 27th, 83; 28th, 82; 29th, 81; 30th, 80; 31st, 79; 32nd, 78; 33rd, 77; 34th, 76; 35th, 75; 36th, 74; 37th, 73; 38th, 72; 39th, 71; 40th, 70; 41st, 69; 42nd, 68; 43rd, 67; 44th, 66; 45th, 65; 46th, 64; 47th, 63; 48th, 62; 49th, 61; 50th, 60; 51st, 59; 52nd, 58; 53rd, 57; 54th, 56; 55th, 55; 56th, 54; 57th, 53; 58th, 52; 59th, 51; 60th, 50; 61st, 49; 62nd, 48; 63rd, 47; 64th, 46; 65th, 45; 66th, 44; 67th, 43; 68th, 42; 69th, 41; 70th, 40; 71st, 39; 72nd, 38; 73rd, 37; 74th, 36; 75th, 35; 76th, 34; 77th, 33; 78th, 32; 79th, 31; 80th, 30; 81st, 29; 82nd, 28; 83rd, 27; 84th, 26; 85th, 25; 86th, 24; 87th, 23; 88th, 22; 89th, 21; 90th, 20; 91st, 19; 92nd, 18; 93rd, 17; 94th, 16; 95th, 15; 96th, 14; 97th, 13; 98th, 12; 99th, 11; 100th, 10; 101st, 9; 102nd, 8; 103rd, 7; 104th, 6; 105th, 5; 106th, 4; 107th, 3; 108th, 2; 109th, 1; 110th, 0; 111th, -1; 112th, -2; 113th, -3; 114th, -4; 115th, -5; 116th, -6; 117th, -7; 118th, -8; 119th, -9; 120th, -10; 121st, -11; 122nd, -12; 123rd, -13; 124th, -14; 125th, -15; 126th, -16; 127th, -17; 128th, -18; 129th, -19; 130th, -20; 131st, -21; 132nd, -22; 133rd, -23; 134th, -24; 135th, -25; 136th, -26; 137th, -27; 138th, -28; 139th, -29; 140th, -30; 141st, -31; 142nd, -32; 143rd, -33; 144th, -34; 145th, -35; 146th, -36; 147th, -37; 148th, -38; 149th, -39; 150th, -40; 151st, -41; 152nd, -42; 153rd, -43; 154th, -44; 155th, -45; 156th, -46; 157th, -47; 158th, -48; 159th, -49; 160th, -50; 161st, -51; 162nd, -52; 163rd, -53; 164th, -54; 165th, -55; 166th, -56; 167th, -57; 168th, -58; 169th, -59; 170th, -60; 171st, -61; 172nd, -62; 173rd, -63; 174th, -64; 175th, -65; 176th, -66; 177th, -67; 178th, -68; 179th, -69; 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645th, -535; 646th, -536; 6

Missouri Eleven Starts Long Trip To Pacific Coast

Coaches' Problem Is to Keep
Men Fit During Four Days'
Train Journey.

Special to the Post-Dispatch.
COLUMBIA, Mo., Dec. 20.—The perfect physical condition after two weeks of strenuous preparation, the University of Missouri football squad left Columbia at 1 o'clock this morning, bound for Los Angeles, where the Tigers will meet the University of Southern California on Christmas day.

Twenty-one members of the squad, all of them "letter men," are making the trip, while coaches, athletic officials and loyal fans from several Missouri cities bring the total in the party to more than 50. The journey is being made in two chartered Pullman cars.

The first stop of the trip on the schedule was Kansas City and the team had three times a day for meals, the Bengals will not be off the train again until next morning, when a stopover of half a day at Williams, Ariz., is scheduled, and where the team will hold its first workout of the trip.

Scheduled to arrive at Los Angeles early the morning of Dec. 22, there will be two afternoons for practice before the game.

Southern Route Followed.
As the Tigers are going west by a Southern route, the severe weather which has all but paralyzed transcontinental traffic is not expected to delay them materially, at any rate not after today's journey through Southern Kansas.

After today the route follows through New Mexico and Arizona and California, and warmer weather can be expected.

Coach Henry of the Tigers, expressed himself as well satisfied with the condition of his team when the Tigers went aboard the train last night. There were few injuries of consequence in the latter half of the Missouri season, and practically all of these had recovered before the Bengals met Kansas Thanksgiving day. Since that time brought no hurts of consequence, Henry's only problem was to bring his men up to a fighting edge after their weeks' rest following the Kansas game.

And that has not been difficult, for the men were enthusiastic about the trip west and with the conference this week away, were eager for new work to conquer.

But now Henry has a more arduous and a more difficult task. He must transplant his eleven from the frozen field at Columbia to the warm sunny turf of Los Angeles, and through four days of grilling train ride, without losing the edge of condition which his team now possesses.

MORRIS NAMES POWER CONCERNS 'UNDER CONTROL' OF GENERAL ELECTRIC CO.

Tells Senate That Independent Trying to
Lease Muscle Shoals Could Not Float
Securities Without Its Aid.

By CHARLES G. ROSS,
Chief Washington Correspondent
of the Post-Dispatch.
WASHINGTON, Dec. 20.—Repeating his charge that passage of the Underwood bill would throw Muscle Shoals "into the lap of the electric water power trust," which would be headed by the General Electric Co., Senator Morris (Rep.) of Nebraska, has read into the record a statement regarding the ownership of a long list of public utility corporations.

Special attention was given to the Alabama Power Co., which has been named by opponents of the Muscle Shoals project if the "any independent" company that would start up now to lease Muscle Shoals or to develop any power property," said Morris yesterday, "would find itself unable to float securities unless it came under the General Electric Co. and its machinery."

First referred to his statement before the Senate on Wednesday that three of the directors of the Alabama Power Co. were likewise directors of subsidiary companies of the General Electric Co.

Two Methods of Control.
There are two well-known ways of controlling these various utilities, he continued. "One is by stock ownership, either in whole or in part, and the other is by interlocking directorates. It already appears that the interlocking directorate exists as between the General Electric Co. and the Alabama Power Co., its subsidiary. I now want to offer to the Senate the facts in relation to another means of control of this same enterprise."

The common stock of the Alabama Power Company, 187,333 shares of no par value, is all owned by the Southeastern Power & Light Co. of Maine. A few years ago all of the stock of the Alabama Power Co. was owned by the Alabama Traction Light & Power Co., Ltd., of Canada. It became known that the stock was owned by the American company, and so the Maine corporation was organized to take over all the stock of the Alabama Power Co. Whether it was a ploy or a genuine transaction I am not able to say.

Now between 15 and 20 per cent of the stock of the Southeastern Power & Light Co. is owned by the Electric Bond & Share Co. and that company is entirely owned by the General Electric Co. I referred the other day to the fact that several of the directors of the Alabama Power Co. were also directors of the Electric Bond & Share Co. So there are connections between the General Electric Co. and the Alabama Power Co., one by stock and the other by interlocking directorates.

Stock Ownership.
I told the Senate I was having gathered some information about the stock ownership of various subsidiary companies of the General Electric Co. I have a large part of that information in so far as stock ownership is concerned. I am not yet in possession of the information as to the interlocking directorates.

The General Electric Co. owns 100 per cent of the Cooper Hewitt Electric Co., manufacturers of electric lights used by manufacturers, motion picture producers, and photographic laboratories. It also owns 70 per cent of the common and 20 per cent of the preferred stock of the International General Electric Co., which handles the manufacturing investment and selling activities of the General Electric Co. in foreign countries. It also owns 76 per cent of the preferred and 62 per cent of the common stock of the Edison Electric Co., the largest manufacturer of household electrical heating appliances.

All of the common stock of the Electric Securities Corporation is owned by the General Electric Co. and the mortgage bonds of the Electric Securities Corporation are owned by the General Electric Co. and the Electric Securities Corporation has issued its bonds to the power to purchase the bonds of other similar companies, and there are very many subsidiaries of this company which I do not have time to name.

Adventures of the Round-the-World Flyers



Route taken by the United States aviators to girdle the globe.

DISAPPOINT MINATO THROUG TO RUSH ON TO TOKIO

By LOWELL THOMAS.
Copyright, 1924, by the Chicago Tribune
News-Syndicate and the McClure
Newspapers Syndicate.
"A" TOSHIOGYO, who waited for hours on the shore of Lake Michigan, was disappointed. As the day progressed we found it was not the fog, but the fact that the Japanese village life, as we saw it, was not what we had expected. The amount of heat that little charcoal stove was surprising. As we smiled one to another and attempted our appreciation of the tea by sipping it, we saw that the Japanese were not what we had expected. The amount of heat that little charcoal stove was surprising. As we smiled one to another and attempted our appreciation of the tea by sipping it, we saw that the Japanese were not what we had expected.

"We had heard that many Japanese were discarding their picturesque customs and costumes and adopting those of Europe and America. But up here on this island we were seeing Japan just as it was barely three quarters of a century ago, when the famous American navigator, Commodore Matthew G. Perry, landed at a little fishing village called Yokohama and astounded the semi-barbarous inhabitants by showing them telegraphic instruments, a toy train, and many other inventions of the West that they had never seen before. Up to that time, foreigners had not been allowed to enter Japan, but thanks to the diplomacy of Commodore Perry, Mikado soon became anything but a hermit kingdom.

Fascinated by Village.
"We were fascinated with the village of Yanketo, with its tiny houses that looked like egg shells. Here, for the first time since leaving Sitka, Alaska, we saw rice. To be sure, they were squat, stunted ones, sort of flat on top, like you see on old Japanese prints and Japanese fans. Here, too, for the first time since Seattle we saw Chinese shaggy-haired little fellows, and a few of the Japanese, who were not much bigger than Shetland ponies.

"Of course, we saw little of the home life of the people while making our 2000-mile flight through the Japanese empire. However, we were strolling down the streets of Yanketo when a Japanese gentleman with much smiling and bowing indicated that he wanted us to follow him. He led us across a little garden and at the door of a house which seemed to be the home of our new acquaintance who got down by a petite maiden who got down on the porch and bumped her dainty head several times before us. Puzzled and a little embarrassed, we took off our shoes. About all we knew of the customs of Japan was that boots, shoes, galoshes and other footwear must always be left on the outside.

Room Minus Furniture.
"Shuffling along in our woolly flying shoes, we entered a room as innocent of furniture as Erik's head. There were two teams, each made up of five wrestlers. The other creditors of the United States receiving better terms than England, but Great Britain would not be inclined to assume a delicate attitude in the event of a default by the United States in payment to another creditor.

WANTS TO INTERVENE IN
TEAPOT DOME LEASE SUIT.
CHEYENNE, Wyo., Dec. 20.—Lester C. of Denver today petitioned the United States Court here for permission to intervene as an interested party in the Government's suit for annulment of the Mammoth Oil Co.'s lease of the Teapot Dome Naval Oil Reserve. Attorney Pomeroy, special counsel for the Government, re-listed the petition and forecast that it would be resisted also by counsel for the Mammoth Company.

The motion was made on ground that the Government requires additional time to obtain certain evidence bearing upon the alleged passage of Liberty bonds between Harry F. Sinclair and Albert B. Fall, who, as Secretary of the Interior, created the Teapot Dome lease for Sinclair.

\$101,000,000 BILL IN HOUSE FOR NEW NAVAL VESSELS

Measure Is Introduced by
Representative Britten of
Illinois—Annual Supply
Bill Passes House.

By the Associated Press.
WASHINGTON, Dec. 20.—Coinciding with the passage by the House of the naval supply bill, carrying nearly \$200,000,000 for activities already authorized, Representative Britten of Illinois, ranking Republican on the Naval Committee, introduced a measure to appropriate \$101,000,000 for new naval construction.

His measure would authorize the building of four scout cruisers costing \$11,000,000 each and one floating dry dock to cost \$7,500,000, the elevation of the turret guns of 13 battleships at an aggregate cost of \$6,500,000, and would increase the limit of cost of the two airplane carriers, Lexington and Saratoga, now building, from \$23,000,000 to \$33,000,000.

On the Senate side, the Capitol the Naval Committee shelved the resolution of Senator King (Dem.), Utah, proposing an inquiry into the statistics of the navy, but agreed to seek from the Navy Department data that will show whether the United States is keeping up its end of the arms conference 5-3 ratio.

Commenting on his bill, Britten said it was introduced "in accordance with a statement made by the Secretary of the Navy to the Committee on Appropriations of the House indicating that additional ships and authorizations were necessary to bring our navy up to the 5-3 ratio promoted by the Washington conference." "Unless another conference is called for the limitation of all naval craft," continued Britten, "it will be necessary for us to meet the desire and the intention of the former conference and to maintain our navy at its very highest efficiency for the number of ships in the service, and the quicker we do this, the better.

"If England and Japan supercede us in England, submarines, aircraft carriers, and naval aviation, Congress should immediately take such steps as are necessary to make our navy equal to any other, on earth, not only in steel but in having superior officers and men and make the nation safe in time of an emergency.

"I personally cannot see a threatening speck on our peaceful horizon, but this is a country which should go unprepared or unprotected against any future emergency."

Bill Ahead of Schedule.
In rushing the naval appropriation bill to a vote, the House sent it to the Senate a day ahead of the schedule calling for passage of three of the annual supply measures before the Christmas recess tomorrow. As approved, the bill carried only one amendment—by Chairman Butler of the Naval Committee—to appropriate \$35,000,000 for the construction of fuel oil storage at the Pensacola (Fla.) naval station.

As sent to the Senate, the bill provides for maintenance of the navy during the coming fiscal year at its present strength of 86,000 enlisted men, and for a slight increase in the officer personnel, but would decrease the marine corps from 19,500 to 18,000 men.

A total of \$14,800,000 was carried for naval aviation and funds are provided to finish all naval vessels under construction except the aircraft carriers Lexington and Saratoga, and three fleet submarines.

STEADY INCREASE IN DRY LAW ARRESTS IS SHOWN IN HOUSE TESTIMONY

Kentucky Congressman Says Clogging of
Dockets Has "Almost Demoralized"
Courts—\$11,000,000 for Enforcement
Approved by Committee.

By CHARLES G. ROSS,
Chief Washington Correspondent
of the Post-Dispatch.
WASHINGTON, Dec. 20.—Illustrating facts about prohibition as disclosed in testimony given by Federal enforcement officials before the House Committee on Appropriations and now made public in connection with the committee's recommendation that \$11,000,000 be appropriated for enforcement of the prohibition and narcotic laws during the coming fiscal year.

The amount sought is \$783,120 more than was proposed by the Budget Bureau, but is \$341,770 less than was made available by Congress for the same purpose during the current fiscal year.

Statistics furnished the committee by the prohibition unit of the Treasury Department shows that the number of arrests by Federal prohibition agents has steadily increased. In the fiscal year 1921, the number was 10,548. Thence it progressed to 66,936 in 1923, and 68,161 in 1924. The total for the five years, 1920 to 1924, inclusive, was 223,043.

The frequently heard criticism that prohibition has turned the Federal courts into police courts is given color by the official figures showing the number of cases "made" before United States judges by enforcement officials.

In 1920, there were 7291 such cases. The number went up each year to 1923, when it reached 49,021. For 1924, incomplete figures showed 42,428 cases. Assistant Prohibition Commissioner Jones, who reported the figures, indicated that the full statistics for the year might show an increase over 1923, corresponding with the increase in the number of arrests.

The figures include only cases which were taken into Federal courts. Further statistics for 1924, also incomplete, placed the number of Federal convictions under the dry laws at 37,794, the number of acquittals at 2131 and the number of cases dropped at 8592.

At the close of the fiscal year, so far as the prohibition unit had been able to gather reports, there were 24,164 liquor cases pending in the Federal courts, as compared with 23,052 pending at the close of the previous fiscal year. The Eastern District of Missouri had 143 cases pending and the Western District 12.

The hearings on the bill before the Appropriations Committee brought forth some interesting conclusions.

"In other words," said Representative Gallivan, of Massachusetts, a foe of prohibition, after he had listened to statistics on the growing number of prosecutions, "there were more people violently sniping at the law in 1924 than in 1920."

"There were more convictions," agreed Commissioner Jones.

"Yes," said Gallivan, "they cared less about the law in 1924 than they did in 1920."

Courts "Almost Demoralized."
Representative Thatcher of Kentucky suggested that the clogged condition of Federal court dockets was due, first, to the increased number of persons who had learned how to make whisky, and, second, to the fact that Federal courts were no longer held in awe. In Thatcher's opinion, the Federal Courts were "almost demoralized."

Jones said there could be no "reasonable" enforcement of the law until more courts were willing to impose jail sentences.

"Why, Mr. Jones," said Representative Magee of New York, "if you were going to jail every man who violates the law with one-half of one per cent, the Government could not raise enough money to build jails to hold them."

"My idea is that the American people are a law-abiding people, but they want their Government to play fair with them. They want the rights that they are entitled to and guaranteed to have under the Constitution, and Congress has made no effort to determine what those constitutional rights are."

"Mark you," chimed in Gallivan, "that speech is made after election, and it is a good one, too. That is the best speech I ever heard."

"I mingle with ordinary people," said Magee. "I am an ordinary man. I think it is the duty of the judiciary committee of the House to determine honestly, reasonably and conscientiously what alcoholism content is permitted under the eighteenth amendment. If the property of the United States is to be protected, then the people would take an entirely different view of prohibition."

\$5,682,000 Paid to Treasury.
The committee was informed that during the fiscal year 1924, a total of \$5,682,719 was paid into the Federal treasury in fines and forfeitures under the prohibition law. The collections in the two Missouri Federal judicial districts amounted to \$124,093. The smallest amount, \$620, came from Kansas. Besides making more than 68,000 arrests, Federal agents seized 5214 automobiles and 236 launches and boats, and destroyed property of an estimated value of more than \$3,000,000. In addition, approximately \$7,500,000 worth of

Continued on Page 11.

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For Your Convenience
We are going to keep open tonight and all day Sunday. We have received so many requests for special Sunday appointments, that we have come to realize that this is the only day when many families can shop together—so come in SUNDAY, when you can stay as long as you want to.

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NEW PLAYER-PIANO OUTFIT
PLAYER-PIANO
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ST. LOUIS POST-DISPATCH

Founded by JOSEPH PULITZER

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THE POST-DISPATCH PLAT-FORM.

I know that my retirement will make no difference in its cardinal principles, that it will always fight for progress and reform, never tolerate injustice or corruption, always fight demagogues of all parties, never belong to any party, always oppose privileged classes and public plunderers, never lack sympathy with the poor, always remain devoted to the public welfare, never be satisfied with merely printing news, always be drastically independent; never be afraid to attack wrong, whether by predatory plutocracy or predatory poverty.

JOSEPH PULITZER.

LETTERS FROM THE PEOPLE

The name and address of the author may accompany every contribution, but on request will not be published. Letters not exceeding 200 words will receive preference.

Poorly Heated Street Cars.

To the Editor of the Post-Dispatch:

THE writer, leaving St. Louis from time to time, has an opportunity to observe railway systems in many principal large cities. My travels cover nearly all modern large centers from New York to Denver and from the Canadian border to the Gulf. In no city do I find such perfect street car systems as you have in St. Louis.

There is, however, one thing which you have overlooked all these years, and while everything else is at the highest point of efficiency, you have remained at standstill regarding the very important subject of heating your cars. No where else are cars heated by coal stoves, and you undoubtedly know that electricity is used for this purpose everywhere in the land.

In winter your good-looking, clean cars become mired and dirty by the use of coal or coke; the heat coming from stoves is not sufficient to properly warm up the cars, and you so endanger the health of your patrons.

This system should by all means be abolished. It is too old, inadequate, dirty and filthy, and puts the good name of the city of St. Louis in the discard basket.

Whenever the conversation turns to railway cars of St. Louis, in my travels, my hearers in ninety-nine times out of every hundred remark that "St. Louis still sleeps," and you are responsible for this condition of affairs.

Away with the coal stoves! Make St. Louis a better city to live in, and do not give outsiders an opportunity to sneer our city. V. H. SCANLAND.

Blasting on Nebraska Avenue.

To the Editor of the Post-Dispatch:

HAVING read Mr. Nettie's most interesting letter the other day, due credit should be given for taking his part and exposing things undone in his neighborhood on Twelfth boulevard which are troubling something should be done; sidewalks should be laid, so people could walk to their homes without being in danger every minute of the day.

Another instance: Take the new sewer now under construction in Nebraska. Blasting can be heard a mile away. It makes no difference whether you are sick or dying. Our explosive bureau should investigate why such blasting should be done within the city limits. The property damaged in this neighborhood will amount to thousands of dollars—will the city pay it? No. Why pay enormous high taxes to have our homes damaged? We are not interested in the beautiful caves discovered; what we want to know is who is going to pay the bills for repairs which will have to be done later on?

How long will it be before the people in the neighborhood wake up and take some action? E. PINK.

American System of Justice.

To the Editor of the Post-Dispatch:

IT appears to be the fact that, under our Republican-Democratic form of government, justice cannot be equitably administered. Under this form of government a man is tried, not by a jury of his peers, but by a jury of his friends or of his enemies. Local justice whereof an elected Sheriff, Constable, Judge or administrator is a joke. Let a stranger, particularly a poor stranger, be injured or killed in a community by a resident, particularly by a well-known or well-to-do resident, and the chance of justice being done is practically nil. In small rural communities the stranger, particularly the poor stranger, has practically no chance of having justice done him.

The fault appears to be with our fundamental system of government. Do you think an elected local judge or attorney can effectively prosecute a local man of any standing for killing a poor stranger and hope to be re-elected, or to continue living in the community which he outraged by prosecuting a well-known or well-to-do member thereof? Justice never can be equitably administered from below up under the Republican-Democratic form of government because the people who elect the administrators of justice do not want justice for themselves. They demand more than justice—which is injustice—for themselves, less than justice—which is injustice—for others.

The most nearly equal justice I have seen administered has been in England, where justice comes down from the King—not up from the people, where the administrators of justice are strangers, appointed by the King, not locals elected by the people, and where local authorities are not charged with administration of local justice. Justice is at its best in England, where it is the "King's justice," not the people's. The people won't do justice for the reasons stated hereinbefore. LAW.

BORAH'S DAY-DREAM.

Addressing the Philadelphia Forum, Thursday night, on the "Outlawry of War," Senator Borah said that the American people would never consent to become a part of a scheme or plan which recognizes war as a legitimate method of settling disputes. That is one reason why he opposed, and still opposes, our entrance into the League of Nations. He then went on to outline a plan for peace which we could support.

The first step in the Borah peace plan is the creation of a body of international law which will reduce international relations to established rules of conduct, "as far as humanly possible." Second, "the establishment of an international tribunal with jurisdiction and power to determine all controversies involving construction of international law or treaties; and declaring by said tribunal that war is a crime no longer to be recognized at any time as a legitimate instrument for the settlement of international disputes."

"If war comes," reiterated the Senator, "it must be without the shield or sanction of law, but in violation of it, as piracy, or slavery, or peonage, or murder." He gave it as his judgment that public opinion would be more potent in the enforcement of the decisions of such a world court than armies or navies.

Those are lofty sentiments. Some day the world will entertain them. The world is a long distance from that exalted state now. Mr. Borah may be right in holding that the American people will never join in a scheme for world peace which recognizes the legitimacy of war, but if he really believes the American people would today subscribe to an agreement that war is never justifiable under any circumstances, that resort to war, no matter what the provocation, is a crime, he is utterly mistaken. Further, we are sure that Mr. Borah is the only man of consequence and public responsibility who holds that Utopian illusion. In his case this is singularly unfortunate because, as chairman of the Senate's Foreign Relations Committee, Mr. Borah is a figure of great importance and consequence not only in the public life of the United States but in the public life of the world.

Regardless of our national attitude towards the League of Nations, the fact remains that the success or failure of the world's efforts to banish war and establish the basis for enduring peace depends in a great measure upon what we do or fail to do. We have got to help. Grant that the League covenant is unacceptable. Grant that the Republican party did not mean what it said in its platform this year about joining the World Court with the Harding-Hughes-Coolidge reservations. Grant that the league and the court will have to be abandoned and a new code drafted and a new tribunal created before we can participate in them. Grant all this and still the fact confronts us that there can be no assurance of world peace so long as we remain outside the fold, reserving to ourselves the right to act according to our own judgment in any emergency that may arise.

That is elemental. Yet Mr. Borah will have nothing to do with the league and, so far as anybody can tell, he opposes our adherence to the Court of International Justice. Instead, he is offering a counsel of perfection which no people on earth will endorse and which no nation would more emphatically repudiate than we would. Evolution, education, vision will bring mankind eventually to the shining heights where war will be beyond the pale of law, but the world will have to make its way to that estate by experiments, concessions, mistakes, failures, perhaps, and more struggles—in a word, by the common experience of all aspiration and progress.

Mr. Borah's plan for attaining the millennium by resolution is a day-dream.

"NOW, WHICH YOU WANT—SCOTCH ER EYE?"

(From the Memphis Commercial-Appeal.)



"OPPORTUNISM" OR WORSE.

Victor Rosewater, editor and publisher, condemns the proposed heavy increase in second-class postal rates as "sheer opportunism." The various apportionments of increase against the branches of second-class mail, including newspapers and magazines, have been fixed by cost-ascertainment officials of the Post-office Department in an arbitrary manner, with no office Department in an arbitrary manner, with no periodicals are concerned, would put the cost of mailing up from 100 to 900 per cent above the pre-war figures.

The comprehensive letter to Senator Dale of Vermont by the American Newspaper Publishers' Association, made public Wednesday, attacks the methods of cost ascertainment by the Postoffice Department as unfair, unjust and productive of false conclusions. The figures cited by the publishers show that, with the daily newspapers paying approximately \$12,000,000 a year for the use of the mails, the Post-office Department expends \$8,500,000 for the transportation of newspapers on the railroads. The only other service of any consequence by the department to the newspapers is the rural free delivery. If the newspapers are charged \$5,250,000 as their share of the cost of this service, the department suffers an apparent loss of but \$1,000,000 on both these services. But to offset this, the department has an income of more than \$20,000,000 a year from second-class mails in general.

A bill that would increase the cost of mailing newspapers and periodicals to figures from 100 to 900 per cent over the cost in pre-war days would not bring the additional revenue supposed to be required to balance the postal budget. On the contrary, it undoubtedly would divert so much second-class mail to other channels as to cause a heavy loss to the Government.

When Congress and the public understand that the introduction of the rate-increase bill, with its unscientific bookkeeping and unjust apportionment, is a part of the movement to defeat the postal salaries increase bill, in order to prevent its passage again over the President's veto, they ought to be more than ever convinced that the salary-increase bill should go through without further delay.

THE SENATE'S FAMILY DOCTOR.

Royal S. Copeland, M. D., Junior Senator from New York, plays two roles at Washington. Not satisfied merely with being an able Senator, he has become family doctor to the Senate. Like every other competent medical man, Dr. Copeland knows the value of sunlight and fresh air—the only things of major importance left on the free list under our present tariff.

"It is common knowledge that fresh air and direct sunlight are requisites of health," says the Doctor-Senator, or, if you prefer, the Senate doctor. "The only air that reaches the Senate chamber is pumped through piped inlets. The only sunshine comes through the heavy ornamental glass-paneled roof. I do not doubt that the existing system of ventilation and absence of direct sunlight constitute an immediate menace to the health of every member of the Senate today."

Dr. Copeland adds that "the United States Senate chamber may be described literally and truthfully as 'The Room Without Windows.'" Months ago he introduced a resolution providing for the introduction of air and sunshine directly, by the simple process of providing windows. It seems that the Senate accepted the doctor's advice as wise and timely, in view of many recent senatorial deaths—20, to be specific, in the past seven years. But one member's objection forced the bill back on the calendar, fearing the alterations might mar the decorations!

"More fresh air and less hot air," or words to that effect, is Dr. Copeland's prescription. Good medicine for all of us.



TAKE THAT!

JUST A MINUTE

Written for the Post-Dispatch

By CLARK McADAMS

Copyright, 1924.

DECEMBER 20.

Only five days now 'til Willie, lightly bounding from his cot, Ascertains beyond disputing Whether goodness pays or not.

Sir: What you said of the consequences of all eating the same thing hit me like a ton of brick. Do you know that the last of the old-fashioned German restaurants in St. Louis—those which had the true German flavor—has closed? There is nothing here any more that suggests Faust's, nor can there be anything of the sort under prohibition. Ours is the age of the cafeteria. Go see Chicago! Whether the German restaurant was enjoyed or not, or whether it was an institution worth preserving, are abundantly attested by the wholesome fame which those places enjoyed in their day and which they continue to enjoy even now among people who never saw them. It fairly makes one hungry to think of them. None less than an expert could tell us how many German dishes went with that era, how many price-less recipes never to be recovered lie with the buried past. What is easier for most of us is to reckon the cost of their passing to what you call human variety. You are quite right in saying that rice eating was the end of the Chinese, spaghetti consumption the last of the Italians and frankfurter and sauer kraut devouring the undoing of the Germans. What an experience it is to see ourselves going down into the same likeness one to another, alike even in our daily food! I somehow never thought of it in the way you see it. I always thought of civilization as something that went out because of exhaustion. I see now what happens if. You knocked the scales from my eyes, and no greater service can man render. Hail to the school of two-minute thinking!

THE BLIND BOY.

Representative Harry B. Hawes of Oklahoma has received from a friend in Oklahoma City the following:

"Dear Harry: In time of need a man turns to his powerful and influential friends. So I turn to you in an hour of vexation.

"Please refer to the Government bureau presumed to have information on the following questions: 'A herring-like fish, spelled in five letters.' 'An Asiatic evergreen spelled in four letters.'"

"I have exhausted all sources of information down here in Oklahoma. All the books in the Carnegie Library down here have been consulted. Now, if you can't secure this information for your old friend, from the Government, one of its citizens is in a terrible dilemma. I have written Archbishop Glennon at St. Louis to give me information on religious subjects, and I have written the professor of astronomy at Washington University for a reply to an astronomical query; so you will perceive that you are in good company. I shall await the reply to this letter with impatience, for I am stuck.

"I and mine are well; hope that you and yours are the same."

The Coolidges have done away with the cater at White House functions, and are now doing it themselves. However, our reigning economist will scarcely ask a reduction in his own salary.

Keep cool with Coolidge.

THE FLAPPER'S VERNACULAR.

Those of us who do not know the flapper's vernacular will know more about it after reading this:

Bookkeeping—Making dates.

Boxing the Compass—Ordering a dinner on a bill of fare.

Beach Comber—A handsome young man.

Charlie—A guy with a mustache.

Crow Bar—A divorce lawyer.

Cake Basket—A Ford sedan.

Dumbbell—A stupid boy.

Dumbdora—A stupid girl.

Eskimo—A fellow with a hired bathing suit on.

Eight Minutes—Very hard boiled.

Egg—A fellow who lets the girl pay her own way.

Fly Paper—A fellow who sticks around.

Film—A bathing suit.

Foreign Count—A man who borrows girl's money.

Gang Plank—An old man who lets his family run over him.

Garter—A holdup man.

Garage—A dance hall.

Horse and Buggy—A girl with long hair.

Ironside—A girl who wears corsets.

Insured—Engaged.

Jelly Roll—A romantic girl.

Non Skid—A flapper who carries her own hooch.

Pin Feather—A girl under 18.

Spoon Holder—A park bench.

Sea Serpent—A widow who charms the men.

Sand Spider—A bathing suit censor.

Water Lily—A beautiful girl who hasn't any brains.

Sir: A farmer was working in his field near the bank of a river one day, when, upon looking at the river, he saw a decapitated body floating upon the surface. A few minutes later it was followed by a human head. The farmer was astounded; not at the sight he had seen, but at the ghastly sound of the head, which was singing: "I ain't got no-body." He dropped his pail, started on a run for the house, and didn't stop until the door was closed behind him. Outside one could hear the breaking of bottles and a general disturbance of "fire-water" utensils, after which the farmer emerged from the house heavily laden with pots, kettles, hose, bottles, etc.; walked straight to the river, removed himself of his burden, and after it had disappeared beneath the water's surface, said, "Never again."

E. H. S.

Efficiently the apostrophe is not going to have much of a Christmas. Sign on Olive street:

Trunk's Lettered

Another sign on Olive street:

An unusual opportunity to improve your cemetery lot.

Has our lot really got down to that?

East St. Louis wants a new name, but hesitates to accept one that doesn't indicate where the place is.

The MIRROR PUBLIC OPINION

NEW BROOM IN BAY STATE.

From the Lowell Courier-Citizen.

THE Commonwealth of Massachusetts now has a statute which goes even further than does the national act known as the name of Volstead, although in substance it is supposed to parallel the national act. It went into effect on Friday—

sinister omen. It is probable that the ever effectiveness it has will be at the minimum in the first few weeks of its operation, since new brooms commonly sweep cleanest.

One reads that the new law, now fully empowered, will make it difficult for the Federal agents to make their police surveillance.

watching the coasts and patrolling roads in quest of illicit transportation.

await with interest, the revelations of increased efficiency—but, we must have added, without a very lively hope that the State not to be heedful of the public law no matter how drastic the enforcement it may become. Thus far the new propensity in any Legislature to nix the essential weakness of the law.

The attempt has been, and will be, to drag the unwilling part of the law into the observance of an act which, not to say the least, gladly headed by per cent of the inhabitants, and which therefore be crowded on them by means of police surveillance. We know of no law in human history where any such thing has succeeded. The only probable result the repeated increases of drastically more determined defiance by such as resist this regulation as both impudent and illogical.

DEFIANCE OF MARGOT'S HUSBAND.

From the Milwaukee Sentinel.

THE defeat of Herbert Asquith, grand old man of British politics, in recent election, was brought about by the irate women voters of Paisley, according to an American correspondent. It is respondent is correctly informed, the women of Paisley voted Mr. Asquith out of Parliament because "they wanted a divorce."

The explanation is plausible, Asquith's wife, Margot, was a divorcee, and her caustic tongue and pen, has laboriously for many years to enlarge the circle of her personal enemies, and to add upon the head of her innocent husband the doctrine of family unity and joint responsibility of husband and wife. At the same time, however, British women, like American sisters, are clamoring for personal freedom and legal independence from their husbands. In that respect, they want the die of family unity to be wished. One gathers that the ladies desired to be responsible for the actions of their husbands, but they will hold other men's husbands strictly accountable for the actions of their wives.

Services at Christ Church. Services at Christ Church Cathedral will include a manager service of the Church School tomorrow afternoon and a Candle Light service the afternoon of the day before Christmas. Both of these services will be preceded by seasonal music.

NELSON CONTEST IDEA ABANDONED BY DEMOCRATS

Chairman of State Committee Announces He Has Been Unable to Find Evidence of Fraud.

The idea entertained by Dr. Arthur W. Nelson, defeated Democratic candidate for Governor, and a few of his supporters of contesting the election of Governor-elect Joshua Baker, has been abandoned. Nelson, chairman of the Democratic State Committee, announced yesterday in Kansas City that he had been unable to find sufficient evidence of fraud to justify a contest.

Another reason reported to have had a part in the conclusion reached is that a few Democrats, who either had election bets they desired to even up, or who sought revenge through a contest against factional opponents within the Democratic party, were unable to arouse interest among party leaders in the proposed contest.

The Democratic organization in St. Louis after long hesitation finally agreed to support Nelson in a contest. Tom Pendegast, leader in Kansas City, did not oppose a contest, believing, it is said, that a recount of ballots in Kansas City would show irregularities in precincts which Joseph Shannan, leader of an opposing faction, is said to control. John Ransom, formerly a Police Commissioner in Kansas City, favored a contest.

Found Little Encouragement. But no encouragement was found when Barbee interviewed Justice Graves of the Supreme Court, former Judge Fred Williams of St. Louis, or Morton Jourdan or others whose voices usually have the greater weight in Democratic party councils.

Nelson was advised that unless election frauds had been so glaring that a widespread public indignation was aroused to an extent that there was a popular demand for a contest, nothing could be accomplished by one. He was told that while there were indications of many irregularities, there was little if any evidence of actual fraud.

During the six weeks since the election that the contest has been under consideration, Nelson has repeatedly stated that he held his mind open, that if actual evidence of fraud sufficient to change the result of the election was shown to him that he would feel obliged to begin a contest, but he had no intention of opposing the seating of Baker unless such evidence was produced.

Statement by Barbee.

Barbee's formal statement on the matter was:

"Immediately after the election I heard many rumors of fraud in connection with the election. Nelson really was silent. As chairman of the Democratic State Committee I felt it was my duty to make whatever inquiry into the facts surrounding the election I could. I have consulted with these persons in St. Louis and Kansas City and others of the State who, in my judgment, would know of any palpable fraud in their respective localities. I found in several instances certain irregularities and technical violations of the election laws.

"I have not been able to obtain sufficient evidence to conclude that fraud was practiced to such an extent that a contest would be justified or that it would make any change in the result of the election.

"I have not now and never have had any desire to thwart the verdict of the people of the State as expressed by their ballots.

Object of the Inquiry.

"I am, however, in favor of honest election, and feel that no one can object to a close inspection and careful scrutiny of an election for the highest office of the State.

"I have, therefore, delayed making public my statement out of respect for the opinions of those who are advising a contest.

"A few people have suggested that I call the State Committee together to take whatever action they desired regarding a contest. I have declined to do so for the reason I failed to find in my investigation sufficient evidence of fraud which would justify the committee bringing a contest.

Against Bringing Contest.

"I see that some of the members of the State Senate have announced that they do not favor a contest, giving various reasons for their decisions. I think they are correct that no contest should be brought and that the work of the Legislature should not be impeded on that account.

"After looking into the facts in connection with the election Nov. 4, I am convinced that Sam A. Baker was elected, although I did my utmost to defeat him.

"I extend my congratulations and will buckle on the armor of democracy for the next battle and hope to be more successful."

Services at Christ Church. Services at Christ Church Cathedral will include a manager service of the Church School tomorrow afternoon and a Candle Light service the afternoon of the day before Christmas. Both of these services will be preceded by seasonal music.

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POPINI

MEDITATIONS —OF A— MARRIED WOMAN By HELEN ROWLAND

SAFEGUARDING A HUSBAND.
THE supreme struggle of a woman's life used to be getting a husband—but now, it's holding ONTO one, after you've got him.

The bachelor has lost his "place in the sun," and no man seems to be popular with the girls, these days, until one woman has set her seal of approval upon him, by marrying him.

It is not that all the nice men are married; but ANY man is so much nicer, after he has had his egotism extracted and become woman-trained.

A married man used to pretend to be a bachelor when he was out for a lark; but, nowadays, a bachelor finds it adds to his attractions, to pretend to be "a married man out for a lark."

Making a husband out of a bachelor is a labor of skill, love, art and time; and after you've finished, it's rather disconcerting to have some sweet young thing come along and expect you to toss pennies for the exclusive rights to him.

There seems to be no way of "hog-tieing" a husband, after you have lassoed him. Labeling him "sold," putting him on a leash or making him wear a wedding-ring is not the slightest use. That only makes him more tempting, like the "Do not handle" sign on the things in the shops.

The world is full of heart-robbers, love-poachers, and sentimental highwaymen, who have no regard for your property rights.

Hot waffles and home-made pies used to be guaranteed to hold a husband; but, nowadays, flour-and-water paste seems to have no chance against apple-sauce, lip rouge and soft soap.

If an attractive married man escapes becoming entangled in a lot of foolish flirtations, it is purely because of his own strong will-power and self-restraint.

There are many times when a woman would gladly drop her husband, if she did not feel morally certain that some other woman would come right along and pick him up.

A husband is like a hat. Whether he is exactly what you want or not, it is an insult to have anybody come along and snatch him away from you.

It is all very well to be broadminded and generous—but a tooth-brush, a table napkin and a husband are things that no woman wants to share with ANY other woman!
Copyright, 1924.

ing his body. How about your 12-year-old of the city? It is not a job for teachers alone. Parents must recognize the fundamental need of physical development for their young and must expect the school to furnish the opportunity for body training as well as for mind training. Regular exercise, physical or athletic, must be a requirement of the school for their young and must expect to accomplish in the matter of educating your boy or girl.

NEW YORK.—Some country-bred bantam is going to create a sensation here some day by murdering three or four women for their pearl chokers before he finds out they are not real. All of them are of "pearls" of tremendous size and might be worth the attention of any murderer but for the fact that they are inexpensive and fragile.

Mrs. Nell Wheelock of Concrete, Wash., works as a "lineaman" on the telephone system in that State.

Give a Thought to Mother

MARTHA WASHINGTON SEWING CABINET
Compartments on each end with large drawers for your sewing, finished in walnut and mahogany. \$15.00

ELECTRIC VACUUM SWEEPER
Ask for Demonstration
Inexpensive high-power hand Vacuum, special... \$1.50
Add years to mother's life with a "Bee-Vac" Sweeper... \$39.75

FLOOR AND BOUDOIR LAMPS
Large assortment of Floor Lamps with polished stands and lovely silk shades, with long silk fringe... \$19.50
Boudoir Lamps, in an assortment with beautiful colored shades and metal bases, wired complete—special... \$1

Imported china will be enjoyed by mother.
23-PIECE TEA SETS SPECIALS
Excellent quality Bavarian China, light metallic blue luster... \$10.25
Good quality light-weight China, white semi-porcelain... \$14.00
Bavarian China, all-over glaze, canary luster... \$8.50

FEATURED DINNER SETS
94-piece Dutch pattern, opal... \$28
100-piece, Domino, first quality light-weight China with intricate floral squares... \$39.85
100-piece, Domino, first quality light-weight China with inner gold hairline... \$65.05

H. WALKER FURNITURE CO.
206-208 N. TWELFTH ST.
OPEN EVERY EVENING UNTIL CHRISTMAS

"IF WINTER COMES" By Sophie Irene Loeb



SOPHIE IRENE LOEB

"If winter comes,"
Let it not find you unprepared.
But ready to meet the cold blast Of the North Wind.
When you have trials and troubles And feel them too keenly Until they weigh you down Oh, so low.
It is because somewhere in the past You have failed to prepare For the winter That always comes.
For he who enjoys the sunshine Of summer And gives no care to the cold to come Suffers.
But he who looks forward And makes provision, No matter how the storm rages Or beats against him, He is fortified.
For no one—no matter how poor But may not save something—Be it the crumbs of yesterday In order that tomorrow May not find him More poor indeed.
"If winter comes,"
There can be no horrors Nor struggles for him Who has a vision Of snow and sleet. Even while he is basking In summer suns.
"If winter comes," be ready, And instead of dreading it You will welcome it. For it will make you stronger to know That you have been up and doing And have made hay while the sun shines.
To keep you "When winter comes."

FASHION FRILLS

PARIS.—Rat chinchilla has become a favorite fur this winter. Usually these skins are worked in diagonal lines which emphasize the slender silhouette.

NEW YORK.—The furriers and the glove makers are at war again. The glove makers are responsible. The fur is obtained from baby French lambs, which also supply the leather for ladies' gloves. Since the caracul venter, growers have been able to obtain better prices from the furriers than from the glove makers, and the latter are left without supplies.

Children's Bedtime Story By Thornton W. Burgess

Curiosity Satisfied

The curious to gratify
You first will have to satisfy.

—Peter Rabbit.

PETER RABBIT sat at the top of a steep bank in the Laughing Brook in the Green Forest as puzzled a Rabbit as ever had lived. He had followed a queer trail in the snow. It ended in a long furrow from where Peter was sitting straight down the steep bank to the water. Peter hadn't the least idea who had made that queer trail. So he sat there, staring all about rather foolishly, and now and then scratching a long ear with a long hind leg.

"Hello, Peter Rabbit! Isn't this great weather? Don't you just love it? I do," said the voice.

Peter stared all around, everywhere but in the right direction. Finally he just happened to look down in the black, cold water of the Laughing Brook. There in the very middle of it he saw a brown head, with a pair of bright eyes full of mischief looking up at him.

"Little Jo Otter!" cried Peter. "Goodness, how you startled me! I couldn't tell where that voice came from. Yes, this is fine weather. I like it, too. But I hope it won't get any colder."

"I don't care how cold it gets," declared Little Jo Otter. "By the way, what brings you over here to the Laughing Brook?"

That reminded Peter of the queer trail that had so puzzled him. "Someone, I haven't the least idea who, has been traveling about in the Green Forest and has left the queerest trail I've ever seen. In parts of it are no footprints at all. There is just a long furrow in the snow. Here is one of those furrows right down this bank."

Little Jo Otter's bright eyes twinkled. "That is queer," said he. "Now, who under the sun do you suppose could have made it?"

"That's what I want to know," declared Peter. "But I guess I'll have to keep on wanting, for I don't see that coming out of the water anywhere."

"I'll have to have a little closer look at that. I'll join you in a minute," said Little Jo Otter. He swam swiftly up the Laughing Brook and came out of the water where the bank was low. Then he made his way around up to where Peter was sitting. "That is a queer trail," said he, trying to keep his eyes from twinkling. "It looks to me as if someone had slid down there. I tell you what,



"Little Jo Otter," cried Peter.

Peter, let's slide down, too, and see how it seems."

"No, thank you," replied Peter promptly, and backed away in a rather undignified manner. Just looking at that cold, black water made him chilly.

"Oh, come on, Peter! It is the greatest fun in the world!" cried Little Jo, and, giving a quick, hard push with his hind feet, he glided right down that furrow, flat on his stomach, straight into the water. Peter looked over at the trail Little Jo had made getting up there. Then in a flash he understood. That trail which had puzzled him so was made by Little Jo Otter himself. He had made those queer furrows by sliding on those queer furrows in the same way that he had gone down that bank. Peter gave a happy little sigh. His curiosity was satisfied.

The next story, "The Coasting Party."

(Copyright, 1924.)

Foods That Go Together.

VEGETABLE soup, cold turkey, cranberry jelly; potato croquettes, creamed cauliflower, celery salad and pumpkin custard.

Broiled mutton chops, stewed tomatoes, mashed potatoes, macaroni salad and cream pie.

Broiled steak, sauce Bernaise; rice potatoes, stewed celery, lettuce and string bean salad and apple whip tarts.

Pork chops, breaded; apple sauce, rice potatoes, ladies' cabbage, watercress salad and sliced oranges sprinkled with cocoanut.

Boiled cod, egg sauce; potato balls, cauliflower with butter sauce, cabbage salad and apple pudding with hard sauce.

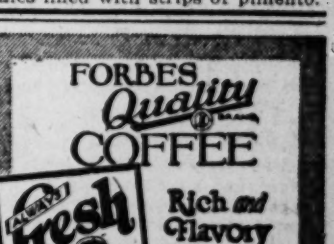
DO YOU LIKE EGG PLANT? By Hannah Wing

A Recognized Authority on Matters Pertaining to Household Management.

MANY devotees of the eggplant forego the pleasure of eating this delicate vegetable because of the amount of trouble necessary to prepare it. To these it will be good news to learn that modern-day cooks have abandoned, to some extent at least, the tiresome process of long soaking in salt water and much pressing as a part of the preliminaries of cooking eggplant. With all of this bother well out of the way, eggplant becomes a vegetable that may be prepared on the "spur of the moment" either by slicing and sautéing directly in bacon fat or butter, or, if a more delicate result is desired, by dipping in egg and crumbs as for breading and frying in deep fat.

Eggplant cut in slices and cooked in boiling salted water may be creamed or served au gratin with cheese. Eggplant cut in Julienne strips as potatoes are and fried in deep fat is a pleasantly delicious accompaniment to lamb chops or a finely broiled steak.

Stuffed eggplant is a fine dish for a company dinner. It is made by serving the cooked, mashed and well seasoned pulp of the vegetable in half of the shell from which it was scooped out for cooking. Left-over eggplant combines well with left-over meat or with crumbs in a variety of baked dishes. Timbales made with this vegetable are especially to be recommended. For these cut an eggplant in slices, cook in boiling salted water, drain and mash. Add 1/4 cup butter, 1/4 cup bread crumbs, two eggs, onion juice, salt and pepper to season. Bake in greased timbales lined with strips of pimento.



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The Man on the Sandbox

by L. C. Ram

HUMBLE PIE.

THE A. L. magnates, one and all, Excepting P. DeCatesby Ball, Upon their bended knees did crawl In manner meek and humble; And begged a piece of humble pie Of the Commissioner so high, And promised never to deny His slightest whim, or, grumble.

And furthermore they begged to state: "His latest act we deprecate And we will tender Ban the gate, In case he should repeat it." With foreheads knocking on the floor They groveled and salaamed some more, Then, meekly backing through the door, For other parts they beat it.

TOO TRUE.

The commissioner not only had the magnates eating out of his hand, but he seemed to make them like it.

A humble pie split seven ways is just enough to play the baseball blues on the digestive organs.

However, there is no accounting for taste as the feller said when he kissed the cow.

QUITE SO.

The cross-word puzzles have proved a blessing in disguise. They keep our Congressmen so busy that they haven't any time to be thinking up fool bills.

Joe Bush admits that the Browns got the better of the Shocker trade. Spoken like a man, Joe. Far be it from us to impeach your testimony.

Urb Shocker is five days older than Joe Bush, which ought to settle all disputes as to who got the better of the trade.

The man on the sandbox says the sight of Ban Johnson lying on the floor with a gag in his mouth and his hands tied behind his back is not going to make the gamblers rend the skies with their weeping and wailing and gnashing of teeth.

The case of Johnson demonstrates that the "iron man" is supreme in baseball and said iron man is not a pitcher, either.

And in the matter of backing up a friend or trying to ease himself between the railings of his private box, Phil Ball has proved that he can stick.

VERY LIKELY.

See where the U. S. contemplates building the largest airship in the world. By the time it is completed the Shenandoah and Los Angeles will be about ready to be used for target practice.

And that's the way the money goes, as the feller says.

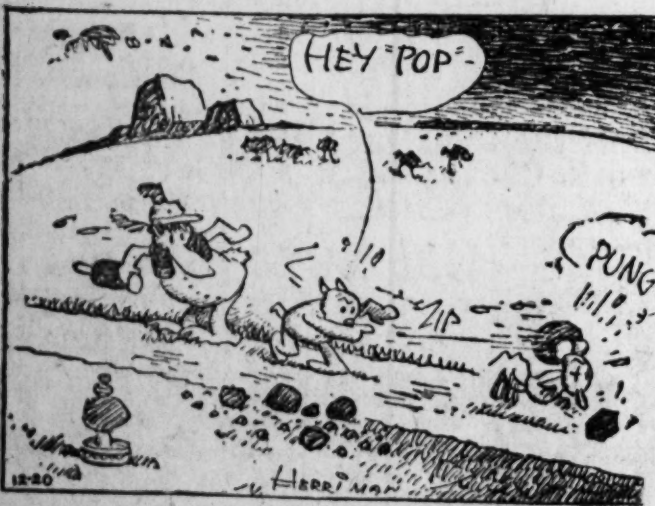
St. Louis is pretty well protected after all. It takes a cold wave about a week to pierce our smoke screen.

But you can't discourage the weather man. If the cold waves don't show up on schedule time it's not his fault.

"Armies Kill Measure Aimed at Bus Company."

A good shot, we call it. "Policeman Forms Cushion for Victim's Fall." Got to hand it to the Chicago coppers for versatility.

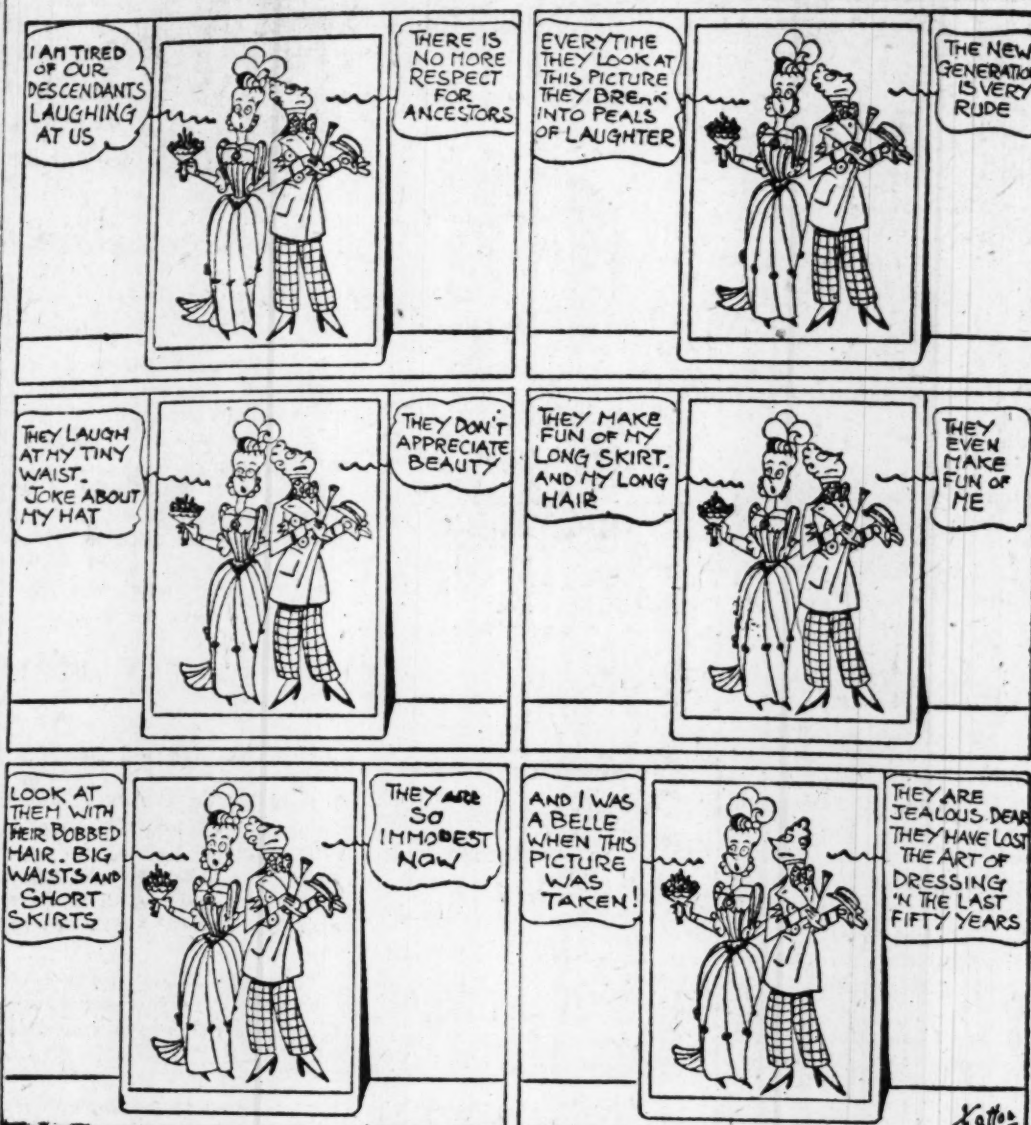
KRAZY KAT—By HERRIMAN



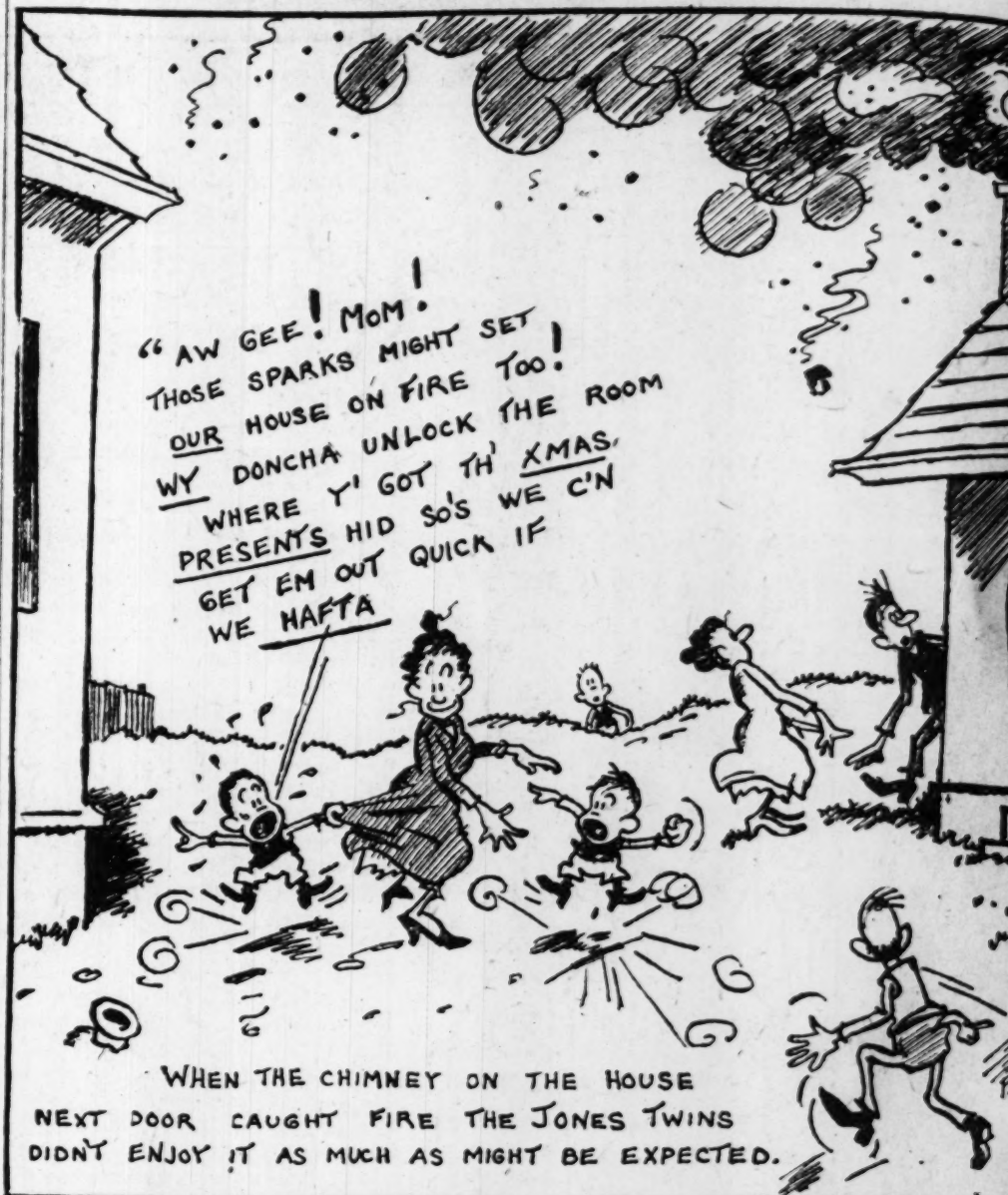
EXPERT SERVICE—BY IRVIN S. COBB.

BELLHOT, waiting early, passed through the lobby of the St. Francis Hotel at San Francisco. "Young man," said the manager sternly, "you should know that it is against the rules of this hotel for an employee to whistle while on duty." "I ain't whistling, sir," answered the youth. "One of the guests lost her dog and I'm paging it." Copyright, 1934.

CAN YOU BEAT IT?—By MAURICE KETTEN



NEIGHBORHOOD NEWS—By FONTAINE FOX



LIFE'S LITTLE JOKE—NUMBER 709,835—By RUBE GOLDBERG



MUTT AND JEFF—MUTT MUST HAVE HIS LITTLE JOKE OCCASIONALLY—By BUD FISHER



BRINGING UP FATHER—By GEORGE McMANUS



ST. LOUIS POST-DISPATCH

WEEKLY RADIO SECTION

BROADCASTING PROGRAMS OF PRINCIPAL CITIES

Section of the ST. LOUIS POST-DISPATCH

SATURDAY, DECEMBER 20, 1924.

Importance of Low Loss Equipment in Radio Set

By R. B. LEFFERTS, E. E.,
Research Engineer, General Instrument
Corporation.

It is unfortunate for radio experimenters, receiver manufacturers and designing engineers, that electricity still remains the mysterious, subtle and "invisible fluid" that Benjamin Franklin wrote about in the eighteenth century. If this were not so, those concerned with the construction of radio receivers might go about their work with the assurance of a plumber who has little trouble in discovering the leaks, losses and inefficiencies resulting from his craftsmanship. The most unobservant person can find a leak in a water pipe, but the radio set builder can have losses in his various devices as big as all outdoors without being conscious of their presence. Unless he is equipped with the most exacting instruments that science can afford, at the present time, large quantities of the energy that he gathers from his antenna system will be dissipated under his very nose.

Like all other arts, the radio art has waited along for several years before engineers began to calculate the severe damage to efficiency that results from "a little bit here and a little bit there." The same was true with the automobile. As startling as it may seem, the efficiency of a single cylinder today is three times greater than the efficiency of the cylinder of 20 years ago. This came not through blind groping, but through the checking up of the little sources of loss, which in the aggregate, subtract a heavy percentage from the total efficiency.

Fortunately, we have come to the "checking-up" day in radio engineering. Having rounded off the rougher corners, we find our radio engineering bending over the little tail-tale instruments that readily discover current losses so small that they are expressed with a figure including a decimal point and a half dozen ciphers. The best receiving set in the world gathers in but an insignificant whiff of electrical energy and without any desire to excite the reader of this article, we might say that the best receiving set that can be assembled at this time by the most capable radio fan will dissipate half of the received energy before it reaches the reproducing apparatus. Is there any wonder that conscientious engineers and manufacturers of radio equipment are striving to overcome these destructive losses? Is there any wonder that "low-loss" is becoming the watchword of every efficient producer of radio equipment? As a matter of fact, radio development has reached a point where progress must come not alone through the design of new devices, but through refining our present instruments of their weak electrical points.

It is to be regretted that the average radio fan cannot fully appreciate the meaning and full importance of energy dissipation in the equipment he chooses for his use. This is so because the effect produced cannot appeal to any of the five human senses. A man buying a woolen suit feels of it to determine whether or not it is wool. Milady chooses her evening slippers because they have pretty buckles, but the radio buyer takes home with him devices which, like pails,

may be bought to hold liquids, but really turn out to be sieves, so freely do they permit the passage of the mysterious fluid that he plans to catch.

Let us indulge in speculation for a moment. What if some great scientist should invent a device that would make electric current as visible as water. Better yet, what would happen if electric currents could be changed to water? Many of our radio sets would have to be connected to the drain pipes. We would see little drops oozing out in a multitude of places and the larger leaks would issue little streams like water pistols. Under these conditions, what is now a perfectly respectable radio receiver may turn out to be a beautiful little fountain suitable for the garden or the greenhouse. It certainly could not be "tuned" without a raincoat and an umbrella. In

the most destructive losses take place in the tuning instruments like coils and condensers, the physical embodiments of inductance and capacity. As a matter of fact, they occur in every inch of the circuit between the aerial and the reproducing apparatus. However, it is logical for our engineers to attack and remedy the most troublesome sources first. That is the reason for the great stress that is being put upon condensers and coils.

Let us "get down to brass tacks." If we may borrow the favorite expression of our Vice President-elect Dawes. Let us consider that we have a condenser in a circuit which, by very careful measurement, shows a high-frequency resistance of .03 ohms. Say for argument's sake that this condenser is replaced with a condenser giving a reading of five ohms.

present state, has been made about as sensitive as we can expect. There is not much left to do but clean up the causes of inefficient operation.

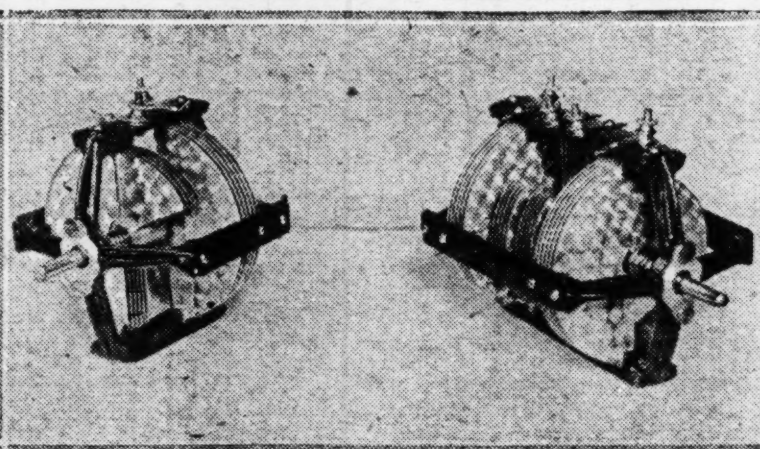
High losses are not only due to faulty design and careless assembly, but to the use of inferior materials. It is also to be noted that engineers are rapidly losing their respect for some of the insulating materials that up until a few months ago, were considered to be the standard. New and highly specialized methods of measurement have shown that appalling losses, through several causes, take place in substances that have long since been regarded as high perfect. These findings have set our technicians to work searching for new materials that will successfully hold up under the peculiar physical conditions imposed by the passage of high-frequency current.

The recent radio conference in Washington emphasized the tendency toward the use of higher frequencies and lower wave lengths. The amateurs were glad to accept allocations as low as five meters for experimental purposes. In fact, the new day of low-wave radio is just ahead and before another two years pass by we may find some of our broadcasters working on wave lengths as low as 100 or even 75 meters. That this will have a profound effect on the development and design of radio equipment is evident.

Engineers have long known that the higher the frequency the greater the tendency toward losses in radio instruments. This is equivalent to saying that the new age of low-wave transmission and reception is impossible of achievement without the introduction of low-loss radio devices. The higher-frequency current offers problems that cannot be met by the present radio equipment. Take for example, the matter of properly insulating a terminal used on a 50-cycle circuit at the ordinary pressure of 110 volts. A substance that would effectively provide insulation and protection at this voltage and at this frequency would be practically useless if the frequency should be increased to a point where it would approach the frequencies employed in radio transmission. During the recent short-wave experiments conducted by the Westinghouse Company at East Pittsburgh the compounds used to cover the tops of the high-voltage condensers became semi-fluid and had to be replaced with material of greater electrical strength. Yet, these same condensers were used on lower radio frequencies without trouble. These two examples should help radio fans appreciate the importance of preventing electrical losses at the higher frequencies.

It should also be kept in mind that losses for the small currents employed in receivers can be just as heavy proportionately as those of the high-voltage circuits used in the transmitting equipment. Furthermore, losses in a receiver are most serious to the fan, since they cannot be made up by amplification beyond a certain point without the introduction of distortion. As little amplification as necessary for respectable audibility should be used in receivers. Low-loss equipment that will deliver a maximum of energy to the tubes is the only practical solution to the problem.

NEW CONDENSERS MAKE ONE-DIAL CONTROL POSSIBLE



These instruments are of the Bruno type. At the left is the 22-plate, three-in-one condenser with variable capacities of .0005, .0025, and .00125. At right the 44-plate, eight-in-one condenser with capacities of .001, .0005, .0025, .00125, .000125, .0001, .00005, and .0000125. By using a series parallel switch any capacity may be obtained, and it is also possible to connect the condensers to control several stages of radio frequency amplification.

extreme cases, even a bathing suit might be required for sustained operation.

As ridiculous as the above may seem, it is a pretty fair picture of what happens in most radio sets today. The electrical equivalent of quarts and quarts of liquid leaks away while ardent lovers of the radio wonder why KDKA or KFO are so elusive. To put it in a business way, "the overhead" in operating a radio set without low-loss equipment is tremendous. It is the easiest thing in the world to eat up the profit in watts before the net income reaches its final depository—in this case the phones or the loud speaker.

The radio fan may ask: "In what apparatus do most of the losses you speak of occur?" Engineers claim that losses take place in every device employed in a radio receiver. However, it is conceded

These figures uninterpreted may not mean a great deal to an engineer. A condenser showing a resistance of five ohms would have an electrical efficiency 30 per cent less than one having a resistance of .03 ohms. Multiply this by the two condensers used in the average receiver and you have a source of loss large enough to cut a great slice out of general operating effectiveness.

Had all of our radio receivers been designed along low-loss lines, the writer dares to say that one out of every three persons who tuned for England during the recent international tests would have succeeded in bringing at least one of the coveted foreign stations. International communication will never be brought about on a dependable scale until low-loss equipment comes into general use. It is certain that the vacuum tube, in its

What Engineers Are Doing in Radio Field

By DR. J. H. DELLINGER,
Chief of Radio Laboratory, Bureau of
Standards.

A SURVEY of progress in radio reveals that this is the era of radio engineering. This statement does not refer to the importance or extent of radio engineering, but to the type of development now going on in radio as compared with that of past years. Relatively speaking, radio has been crude heretofore, whereas the progress now being made is not merely empirical but is more largely characterized by actual engineering development. We now have not so much the invention of devices as the perfecting of them. This statement is very general. There have, of course, been triumphs of engineering in the past history

of radio, and on the other hand the process of "cut and try" will continue to be used in the future. Nevertheless, broadly speaking, radio engineering has now taken definite form and is the tool by which further progress in radio will be wrought.

While a number of outstanding recent developments arrest the attention, it is also true that very substantial progress is being made all along the line of radio engineering. Thus, in the development of new and improved radio communication methods or systems, we have marked extension of the available frequency range, great improvements in directive radio transmission, advances in the perfection of selective radio systems, and engineering development of line-

radio or carrier-current communication. Among radio devices and applications of radio there is outstanding progress on radio beacons, on the use of radio for aircraft navigation, on direction finders, and on radio vision. In the field of research and study of the problems of radio, we have important progress now going on in radio measurements, in standardization of apparatus, in the study and mitigation of the vagaries of wave propagation and atmospheric disturbances, and in the wide reaches of the interference problem.

The most conspicuous recent development in radio engineering is the conquest of the new domain of ultra-radio or very high frequencies (short waves). Even the existence of the vast range of

frequencies above 2000 kilocycles (below 150 meters) was hardly suspected, and certainly was generally forgotten, up until less than a year ago. One curious reason for the subordination of this range of frequencies has been the erroneous use of wave length in meters as an expression of radio frequencies. Radio engineering actually deals with currents which have a certain frequency. The wave length of the wave as it travels along in space can be calculated from the frequency, but it is a derived and an artificial concept.

Frequencies up to 20,000 kilocycles have come into extensive use. Actual radio services are being conducted in this region by broadcasters, transoceanic

(Continued on Page 6.)

RADIO PROGRAMS OF PRINCIPAL STATIONS

CFCA—TORONTO, CANADA. (400 METERS) (Eastern Time.)

SUNDAY, DECEMBER 21.
7:00 p. m.—Service of Eaton Memorial Church.

WEDNESDAY, DECEMBER 24.
9:00 p. m.—Christmas carols broadcast from in front of the City Hall, Toronto, under the auspices of the Downtown branch of the Kiwanis Club.
10:30 p. m.—CNRT, the Canadian National Railway's special Christmas eve broadcast from CFCA's studio.

CHNC—TORONTO, CAN. (350 METERS) (Eastern Time.)

MONDAY, DECEMBER 22.
8:30 p. m.—A studio party by CHNC will be attended by a large number of CHNC's regular family of artists, including Alberto Guerrero, pianist; Vito Kuhl, pianist; Simon Joyce, pianist; Ferdinand Fillion, violinist; Luigi von Kunits, violinist; Frank Blachford, violinist; Albert Aylward, violinist; Earl Meisner, violinist; Lionel Hilton, cellist; Lois Watson, contralto; Vera McLean, contralto; Madame Ferdinand Fillion, contralto; Miss Agnes Adie, soprano; Elsie White, soprano; Genevieve Schreiner, soprano; Violet Murray, contralto; Paramount male quartet, Gerrard Kelly, first tenor; Fred Rogers, second tenor; Dwight Wilson, baritone; E. Forrester, bass; Charles Leslie, baritone.

CKAC—MONTREAL, CAN. (425 METERS) (Eastern Time.)

TUESDAY, DECEMBER 23.
7:30 p. m.—Rex Battle and his Mount Royal Hotel Ensemble.
8:30 p. m.—Studio entertainment.
10:30 p. m.—Joseph C. Smith and his Mount Royal Hotel Dance Orchestra.

SATURDAY, DECEMBER 27.
7:30 p. m.—Rex Battle and his Mount Royal Hotel Ensemble.
8:30 p. m.—Frontenac Breweries' Studio concert.

KDKA—PITTSBURG, PA. (326 METERS) (Eastern Time.)

SUNDAY, DEC. 21.
4 p. m.—Organ recital by Dr. Charles Heinrich, director of music of Carnegie Institute, Pittsburgh, broadcast directly from Carnegie Music Hall.
4:45 p. m.—Vesper services of the Shady Side Presbyterian Church.
6:30 p. m.—Dinner concert by Scalzo Orchestra playing at the Pittsburgh Athletic Association.
7:45 p. m.—Services of the Calvary Episcopal Church, Pittsburgh.

MONDAY, DEC. 22.

6:15 p. m.—Concert by KDKA Little Symphony Orchestra.
7:30 p. m.—Christmas play: "Santa Claus on Trial."
8:30 p. m.—Christmas cantata, "The Holy Child," given by the Westinghouse High School vocal department.
9:30 p. m.—Christmas program broadcast by Diamond National Bank Double Male Quartet and KDKA Little Symphony Orchestra.

TUESDAY, DEC. 23.

8:15 p. m.—"Economic Importance of Studies in Heredity," by Prof. H. D. Fish.
10:10 p. m.—Brunswick hour of music. Artists broadcasting direct from New York recording laboratories of the Brunswick Phonograph Co.
11 p. m.—Midnight program.
WEDNESDAY, DEC. 24.
8 p. m.—Reading from Charles Dickens' "Christmas Carol," by Prof. Wayland M. Parrish.
11 p. m.—Christmas program from the Mifflin Avenue Methodist Episcopal Church.

THURSDAY, DEC. 25.

8:30 p. m.—Concert by the KDKA Little Symphony Orchestra.
FRIDAY, DEC. 26.
6:15 p. m.—Concert by the Hotel Schley Meyer Davis Orchestra.
7 p. m.—Adams Male Quartet.
8:30 p. m.—Concert by Westinghouse Choral Club.
SATURDAY, DEC. 27.
6 p. m.—Dinner concert by the Westinghouse Band.
8:30 p. m.—Concert by the Westinghouse Band, assisted by Helen Rowe, contralto.

KFI—LOS ANGELES, CAL. (469 METERS) (Pacific Time.)

SUNDAY, DECEMBER 21.
7:00 p. m.—Metropolitan Theater program.
8:00 p. m.—One-act plays.
9:00 p. m.—Program from Examiner Studio.
10:00 p. m.—Huxley's Lake Arrowhead Orchestra.
MONDAY, DECEMBER 22.
8:00 p. m.—Evening Herald program.
9:00 p. m.—Walter M. Murphy Music Co. program.

TO BE BRO

10:00 p. m.—Program from Examiner Studio.

TUESDAY, DECEMBER 23.

6:45 p. m.—Aeolian organ recital.
8:30 p. m.—Vocal program.
9:00 p. m.—Program from Examiner Studio.

10:00 p. m.—Packard ballad hour.
WEDNESDAY, DECEMBER 24.
7:30 p. m.—Children's Christmas eve program.

8:00 p. m.—Program from Evening Herald Studio.
9:00 p. m.—Program from Examiner Studio.

10:00 p. m.—Don's Melody Makers (dance orchestra).
THURSDAY, DECEMBER 25.
7:00 p. m.—Christmas play.
7:30 p. m.—Instrumental trio.
8:00 p. m.—Song recital.
9:00 p. m.—Program from Examiner Studio.

10:00 p. m.—Chorus and organ recital.
FRIDAY, DECEMBER 26.
6:45 p. m.—Aeolian organ recital.
8:00 p. m.—Evening Herald program.
9:00 p. m.—Program from Examiner Studio.

10:00 p. m.—Vocal concert by pupils of Myra Belle Vickers.
SATURDAY, DECEMBER 27.
7:00 p. m.—Dance orchestra and soloists.
8:00 p. m.—Vocal and instrumental recital.
9:00 p. m.—Program from Examiner Studio.
10:00 p. m.—Packard Radio Club.

KGO—OAKLAND, CAL. (312 METERS) (Pacific Time.)

SUNDAY, DECEMBER 21.
7:30 p. m.—Special musical service, featuring traditional carols, from the First Methodist Episcopal Church, Oakland, Cal.

MONDAY, DECEMBER 22.

8:00 p. m.—Educational program. Music by Arion Trio. Agricultural course, "Agricultural Superstition," Prof. J. W. Nelson, University of California.
10:00 p. m. to 1:00 a. m.—Dance music program by Henry Halstead's Orchestra and soloists, Hotel St. Francis.
TUESDAY, DECEMBER 23.
8:00 p. m.—"The Cricket on the Hearth," a drama in three acts, by Charles Dickens, presented by the KGO Players. Music by the Arion Trio.

10:00 p. m. to 1:00 a. m.—Dance music program by Henry Halstead's Orchestra and soloists, Hotel St. Francis.
THURSDAY, DECEMBER 25.
8:00 p. m.—Christmas program by the KGO mixed quartet and instrumental trio. Laura Broedrick, soprano; Ruth Waterman, contralto; Carl Anderson, tenor; Richard Lundgren, bass; Julia Hannas Cochran, violinist; Josephina von der Ende, cellist; Dorothy Wines Reed, pianist. Assisted by Herbert L. Bred, speaker.

10:00 p. m. to 1:00 a. m.—Dance music program by Henry Halstead's Orchestra and soloists, Hotel St. Francis.
SATURDAY, DECEMBER 27.
8:00 p. m.—Program given by the faculty of the Musical Arts Institute of San Francisco and Redfern Mason, through the courtesy of Sherman Clay & Co.; Arthur Argiswicz, violinist; William Delba, cellist; Charles Hart, pianist; Carol Van Hult, baritone; address, "Music," Redfern Mason; Violet Fensterblagg, soprano.

10:00 p. m. to 1:00 a. m.—Dance music program by Henry Halstead's Orchestra and soloists, Hotel St. Francis.
KGW—PORTLAND, ORE. (492 METERS) (Pacific Time.)

SUNDAY, DECEMBER 21.
6:00 p. m.—Church services provided by the Portland Council of Churches.
7:00 p. m.—Dinner concert by Colburn's Concert Orchestra of Hotel Portland; soloist, Minnie Felix, soprano.

8:00 p. m.—Pre-Christmas concert by St. Mary's Cathedral choir.
MONDAY, DECEMBER 22.
8:00 p. m.—Concert by the Oregonian Concert Orchestra.
10:00 p. m.—Dance music by George Olsen's Metropolitan Orchestra of the Hotel Portland.

TUESDAY, DECEMBER 23.
8:00 p. m.—Agricultural lecture provided by Oregon Agricultural College Extension Service. M. S. Reese, subject, "Chasing Price Advances," and Prof. J. L. Fairbanks on "Art in the Home."

10:00 p. m.—Concert arranged by Mrs. Fred L. Olson.
10:00 p. m.—Dance music by Multnomah Hotel Strollers of the Multnomah Hotel.
WEDNESDAY, DECEMBER 24.
8:00 p. m.—String and flute quintette concert arranged by Alicia McKillop.

THURSDAY, DECEMBER 25.
8:00 p. m.—Program by George Olsen's Metropolitan Orchestra of the Hotel Portland.
FRIDAY, DECEMBER 26.
7:30 p. m.—Celebration of Second Owl anniversary by wire telephony from Hotel Portland.

TODAY'S BROADCASTING EVENTS

5:00 P. M.
WBZ (337) Springfield, Mass. Dinner concert.
WCX (517) Detroit. Dinner concert.

WEAF (492) New York. Dinner concert. Boys' stories, musical program; six hours.
WGBS (316) New York. Uncle Geehee, music.

WGK (319) Buffalo. Hallpy's string quartet, one and one-half hours.
WSB (429) Atlanta. Bonnie Barnhardt, news.

WTAM (390) Cleveland. Royal Canadians Orchestra.
5:05 P. M.
WIP (509) Philadelphia. Dinner, dance.

5:15 P. M.
WOR (405) Newark. "Music while you dine." Resume of the day's sports.

5:30 P. M.
KDKA (326) East Pittsburgh. Dinner concert. Westinghouse Band.
KPO (423) San Francisco. Tea daisies, two hours.

WCAE (462) Pittsburgh. Dinner concert, Penn Hotel.
WFAA (476) Dallas. Bedtime story.

WPI (395) Philadelphia. Davis Orchestra, Sunny Jim.
WGN (379) Chicago. Skeezix time.

WHN (360) New York. Almanac Orchestra.
WNYC (526) New York. Almanac Orchestra.

WOS (449-9) Jefferson City, Mo. Music, marketgram, announcements.
5:35 P. M.

WVAC (278) Boston. Dinner dance.
6:00 P. M.

CKAC (425) Montreal. Kiddies' stories in French and English.
KGO (312) Oakland. St. Francis Orchestra, one and one-half hours.

WDAF (411) Kansas City, Mo. Address, Story Lady, Trilane Ensemble.
WIP (509) Philadelphia. Uncle Wip.

WJZ (455) New York. Waldorf Orchestra.
WMAQ (447.5) Chicago. Band.

WOAW (526) Omaha. Musical program.
WRC (469) Washington. Peggy Albin stories.

WWJ (517) Detroit. News Orchestra.
6:05 P. M.

WDZ (337) Springfield, Mass. Bedtime story, Hotel Kimball Trio.
6:10 P. M.

WJAR (360) Providence. Musical program.
6:15 P. M.

KDKA (326) Pittsburgh. Children's stories, sports.
6:30 P. M.

CKAC (425) Montreal. Mt. Royal Orchestra.
WCAE (462) Pittsburgh. Uncle Kaybee.

WDAE (560) Tampa, Fla. News, markets, music.
WDAR (395) Philadelphia. Arcadia Orchestra.

WGN (370) Chicago. Drake Ensemble and Blackstone quintet.
WGR (319) Buffalo. Digest of day's news.

WHN (360) New York. Dance music, songs.
WNYC (526) New York. Police alarms.

6:35 P. M.
KYW (536) Chicago. "Uncle Bob." Dinner concert.

6:45 P. M.
WFAA (476) Dallas. Stories, information bulletins.
WOAW (526) Omaha. Dinner program.

WOC (484) Davenport, Ia. Sports.
WTAY (283) Oak Park, Ill. Vocal and instrumental; 1 hr.

7 P. M.
CNRA (313) Moncton, N. B. Canada.
PWX (400) Havana. Academy of Prof. Bari in the Vedido.

WBAP (476) Fort Worth. Sunday school, one and one-half hours.
WBDR (273) Staten Island. School of music, Bible questions.

WVZ (337) Springfield, Mass. Recital.
WEAF (492) New York. Lopez Orchestra.

WEBH (370) Chicago. Sunday school, one hour.
WPI (395) Philadelphia. Concert.

WHK (283) Cleveland, O. Rainbo Club, five hours.
WJZ (455) New York. Address, vocal.

WLS (345) Chicago. "Trip to Toyland," hay and grain, revue, five hours.
WNAC (278) Boston. Vocal.

WOC (484) Davenport, Ia. Sandman, Sunday school.
WVH (465) Newark. Music.

WQJ (448) Chicago. Dinner concert, songs, one hour.
WRC (469) Washington. Bible talk, Salvation Army program.

7:15 P. M.
WIP (509) Philadelphia. Concert.

WRC (469) Washington. "Fads and Fancies About the Crystal Set."
7:30 P. M.

CKAC (425) Montreal. Special entertainment.
KDKA (326) East Pittsburgh. Westinghouse Band.

REN (266) Shenandoah, Ia. Randolph (Ia.) concert.
WCAE (462) Pittsburgh. Pupils of Prof. Moore.

WGBS (316) New York. Herald-Tribune program.
WLAS (400) Louisville. Flute Club.

WHN (360) New York. Vocal.
WNYC (526) New York. Song recital.

8:00 P. M.
KFKB (286) Milford, Kan. KFKB Orchestra.

KSD (546) St. Louis. Christmas cantata.
KYW (536) Chicago. Music.

WCCO (517) Minneapolis-St. Paul. "Fireside Philosophies."
WGN (370) Chicago. Classic hour.

WMC (500) Memphis. Kiddies' stories by Uncle Joe.
WRW (273) Tarrytown, N. Y. Police reports, music.

WSAI (309) Cincinnati. WSAI Orchestra, three hours.
WTAM (390) Cleveland. WTAM Orchestra, three hours.

WTAS (286) Elgin, Ill. Terrace Orchestra, songs, four hours.
8:30 P. M.

KHJ (395) Los Angeles. Children's program, Prof. Hertzog.
WCCO (517) Minneapolis-St. Paul. Musicale.

WFAA (476) Dallas. Hugo (Ok.) artists.

WGBS (316) New York. Movie chat.
WGY (380) Schenectady. Roman's Orchestra.

WMC (500) Memphis. Program by Miss Clement Warner.
8:40 P. M.

WMAQ (447.5) Chicago. Radio photologue, "The Holy Land."
8:45 P. M.

KFI (469) Los Angeles. Vocal program.
9 P. M.

WMAQ (447.5) Chicago. Theater.
WNAC (278) Boston. Copley orchestra, popular songs.

WOAW (526) Omaha. Musical program.
WOC (484) Davenport, Ia. Le Claire orchestra, 1 hour.

WSAI (309) Cincinnati. News, soprano.
WTAY (283) Oak Park, Ill. Guyon's Paradise orchestra, 2 1/2 hours.

9:05 P. M.
KYW (536) Chicago. Humorous sketches, economist talk.

9:15 P. M.
WVH (465) Newark. Dance music, songs.

9:30 P. M.
CKAC (425) Montreal. Mt. Royal orchestra.

WCCO (517) Minneapolis-St. Paul. Athletic Club orchestra.
WOI (360) Ames, Ia. Weather report.

WRC (469) Washington. Astor Hotel orchestra.
9:35 P. M.

KYW (536) Chicago. "Congress Classic," 2 hours.
10 P. M.

KFI (469) Los Angeles. Vocal, 1 hour.
KGO (312) Oakland. Salvation Army Band, "A Christmas message."

10:00 P. M.
KILI (395) Los Angeles. Music, two hours.

KPO (423) San Francisco. Weidner's Orchestra, songs, four hours.
WGBS (316) New York. Russian Eagle Orchestra.

WGN (370) Chicago. Weather, news, music, one hour.
WHN (360) New York. Clark Entertainers, 1/2 hour.

WJZ (455) New York. Hotel Astor Orchestra.
WMH (309) Cincinnati. Vocal and instrumental, organ.

WQJ (448) Chicago. Rainbo Orchestra, songs, four hours.
WRW (273) Tarrytown, N. Y. dance music.

10:05 P. M.
WIP (509) Philadelphia. Organ, Germantown Theater.

10:15 P. M.
WRC (469) Washington. Tivoli Theater organ.

10:30 P. M.
KFNH (266) Shenandoah, Ia. Special feature program.

WEZ (337) Springfield, Mass. Brunswick orchestra.
WHN (360) New York. Popular dance.

10:45 P. M.
WSB (429) Atlanta. Journal Hired Help Skyline.

11:00 P. M.
KFI (469) Los Angeles. Examiner concert.
KFQU (234) Alamo, Cal. Musical program, two hours.

Post-Dispatch Radio Broadcasting Station KSD

549.1 Meters

Daylight broadcasting at 5:40, 10:40, 11:40, 12:40, 1:40, 2:40 and 3:40 p. m. Market quotations and news bulletins of interest to the Middle West. Prices supplied by Market News Service, U. S. Dept. of Agriculture and principal exchanges.

Saturday—8 P. M.

Special Christmas concert by choir of Westminster Presbyterian Church, William M. Jenkins, director; Mrs. K. A. Sommerfeldt, soprano; Mrs. Frank D. Gorman, contralto; Kenneth E. Buchanan, tenor; Norman R. Dutton, basso.

Program

PART I
1—Piano solo, "Pastoral Symphony" (Mozart).
2—Hymn, "O Little Town of Bethlehem" (Mr. Jenkins).
3—Concert solo, "The Babe, Born in the Infant Jesus" (Mrs. Gorman).
4—Hymn, "Silent Night, Holy Night" (Mrs. Gorman).
5—Bass solo, "Under the Star" (Mr. Dutton).
6—Hymn, "O Little Town of Bethlehem" (Mrs. Gorman).

(Continued in XVI Century (Arranged by Clarence Dickinson))

INTERMISSION

PART II
"The Story of Bethlehem" (Mrs. Gorman).
W C K—273 METERS

SATURDAY, Noon—Vocal selections. A. M. Miller, Elmer McDonald.
3:00 p. m.—Children's program.
8:00 p. m.—Program arranged by Floy May Johnson.

WCCO (417) Minn.-St. Paul. Dance program.

WAGB (316) Long Island. Dance program, Far-West Listeners, Santa Claus; two hours.

WEBB (370) Chicago. Steel guitar, Orlo orchestra; one hour.
WFAA (476) Dallas. Adolphus orchestra; one hour.

WMH (309) Cincinnati. Hotel Arms program.
11:15 P. M.

WOAW (526) Omaha. West frolic.
11:30 P. M.

KSD (546) St. Louis. Variety Club orchestra.
WHN (360) New York. Roseland Academy music.

11:45 P. M.
WDAR (411) Kansas City, Mo. Nighthawks; one and one-quarter hours.

12:00 MIDNIGHT.
KILI (395) Los Angeles. Burnett's orchestra; one hour.

KFT (469) Los Angeles. Packard Club; one hour.
KYW (536) Chicago. "Congress Carnival"; two hours.

KFKB (286) Milford, Kan. Early Bird Funmakers.
KGO (312) Oakland. St. Francis orchestra.

KGW (492) Portland. News Metropolitan orchestra; two hours.
WCAL (360) Northfield, Minn. Midnight revue.

WSAI (309) Cincinnati. Midnight entertainers, Toastool Orchestra.

TO BE BROADCAST THIS COMING WEEK

LOCAL BROADCASTING NEXT WEEK

K S D—549.1 METERS.

MONDAY, DEC. 22, 7:00 P. M.—Music and specialties direct from Missouri Theater.
9:00 P. M.—Music program direct from Grand Central Theater.
TUESDAY, DEC. 23, 4:00 P. M.—Home Economics. Special address to the juvenile listeners delivered by Santa Claus himself.
6:00 P. M.—Concert by Benjamin Rader's Orchestra, direct from Missouri Athletic Association.
8:15 P. M.—Concert of Yale Glee and Mandolin Clubs, broadcast direct from the Odeon.
WEDNESDAY, DEC. 24, 6:45 P. M.—Abergh's Concert Ensemble, Arne Andersen, violinist; direct from Hotel St. Louis.
8:00 P. M.—Christmas cantata by choir of University Presbyterian Church, John Morgan, director; Mrs. C. N. Gregg, Mrs. Hattie Spillman, Mrs. Phena Del Brown, soprano; Jeanne Gustafson, contralto; Reginald Hathaway, tenor; Richard T. Morgan, bass; Mrs. Alma Blum, accompanist.
10:30 P. M.—Program of Christmas Carols by members of the Morning Choral Club of St. Louis.
12 Midnight—Christmas Mass, broadcast direct from Old St. Louis Cathedral.

THURSDAY, CHRISTMAS DAY—SILENT.
FRIDAY, DEC. 26, 8:00 P. M.—Artist recital by Mrs. Arthur E. Dale, contralto; Mrs. L. W. Dale, pianist.
SATURDAY, DEC. 27, 8:00 P. M.—Concert by St. Louis Symphony Orchestra, Rudolph Ganz, conductor; direct from Odeon.
11:30 P. M.—Dance program by Varsity Club Orchestra direct from Hotel Jefferson.

W C K—1100 KILOCYCLES—273 METERS.

SUNDAY, DEC. 21, 9 P. M.—Musical program direct from stage of Loew's State Theater.
MONDAY, DEC. 22, Noon—Last minute news items. Vocal selection by Meyer Levy and Elmer McDonald.
3 P. M.—Jack Lynns and Billy Van.
7:30 P. M.—"Sandman Club Hour" for the children. Stories by Ruth Overman of the St. Louis Public Library. Reading of letters from the children. Songs by Blanche Rowan.
8:00 P. M.—Address by Rev. J. P. Meyer, president Ministers' Alliance and pastor of Bethel Evangelical Church. Christmas carols and carol singing. Musical entertainment given by the Perfection Chapter, Order of De Molay.
11 P. M.—Gene Rodemich's Orchestra from Hotel Statler. During intermissions, piano accordion selections, Leland Ballard; vocal selections, Edward Goessling; piano selections, Ellen Loser, from WCK studio.
TUESDAY, DEC. 23, Noon—Piano and saxophone selections—J. A. Jefferts and Herbert Koch. Last minute news items.
3:00 P. M.—Popular songs by Mrs. A. Price, Billy Hallett.
8:00 P. M.—"The Herald Angels"—A Christmas Cantata by Carrie B. Adams, rendered by the Methodist Baptist Church choir of 45 mixed voices. P. D. Anderson, director; Mildred Clark, pianist.
WEDNESDAY, DEC. 24, Noon—Last minute news items. Popular songs by J. Funkhouser.
3:00 P. M.—Popular piano selections, Ted Guy. Songs by Billy Hallett.
7:15 P. M.—"Sandman Club Hour Program" arranged by Mrs. O. T. Johnson. Reading of letters from the children.
8:00 P. M.—Christmas carols sung by members of the Pageant Choral Society, directed by Mrs. O. C. Berghaus.
FRIDAY, DEC. 26, Noon—Jack Lynns and Billy Van. Last minute news items.
3:00 P. M.—Piano accordion selections. Leland Ballard.
7:15 P. M.—"Sandman Club" hour. Stories of Western Life told by Pawnee Frank. Reading letters from the children.
7:40 P. M.—Frank Ockner of Waterloo, Ill. B. W. Tillman of Belleville, Ill.
8:00 P. M.—Vocal selections, Ruth A. Hardie. Readings by Mrs. Geo. W. Sahliel, Ill. Musical program given by the Royer Brothers of Greenville, Ill. Vocal, instrumental numbers and old-time melodies.
11:00 P. M.—Gene Rodemich's Orchestra from Statler Hotel. Vocal selections from WCK studio during intermissions, by L. B. McDowen and Jack Lehr.
SATURDAY, DEC. 27, Noon—Humorous stories and dramatic readings by T. Elmore Lucy. Last minute news items. Vocal selections, Elmer McDonald.
3:00 P. M.—Piano and vocal selections by Mrs. Thomas Mooney and Mrs. W. A. Geary.

W E W—1220 KILOCYCLES—246 METERS.

SUNDAY, DEC. 21, 6:45 P. M.—Lecture, "The Catholic Church, the Only Answer," by Rev. J. V. Kelly, S. J., of St. Louis University.
TUESDAY, DEC. 23, 7:00 P. M.—Advent sermon, "Expectation of the King," by Rev. James J. O'Regan, professor of philosophy, St. Louis University.

K F U O—545 METERS.

SUNDAY, DEC. 21, 9:15 P. M.—Pre-Christmas program. Address by the Rev. Alfred Dierfler of Pilgrim Lutheran Church, St. Louis; piano solo by A. Harstad; two vocal selections by a Ladies' Trio of Redeemer Church; two vocal selections by a quartet of Messiah Church; soprano solo by Mrs. W. T. Zeller.
THURSDAY, DEC. 25, 8:00 A. M.—Christmas program by members of Holy Cross Church choir; brief Christmas address by the Rev. W. F. Wilk.

K F Q A—1150 KILOCYCLES—261 METERS.

SUNDAY, DEC. 21, 8:00 P. M.—The regular Sunday evening service broadcast from Fourth Church of Christ, Scientist. Subject of address: "Is the Universe, Including Man, Evolved From Atomic Force?"

KTF—HOT SPRINGS NATIONAL PARK, ARK. (375 METERS)

(Central Time.)

SUNDAY, DECEMBER 21.

8:30 to 10:00 p. m.—Sunday night special concert from the New Arlington Hotel.

MONDAY, DECEMBER 22.

8:30 to 10:00 p. m.—Concert by Mrs. Anna M. Berberich and assisting artists of Hot Springs.

10:30 to 11:30 p. m.—"Chicago Serenade" dance concert from the New Arlington Hotel.

TUESDAY, DECEMBER 23.

8:30 to 10:00 p. m.—Concert arranged by Miss Eleanor Sink, violinist, and other artists.

WEDNESDAY, DECEMBER 24.

10:00 p. m.—Program of Christmas carols by the Hot Springs Choral Club of 30 voices; orchestra selections.

10:30 to 11:30 p. m.—Dance program.

THURSDAY, DECEMBER 25.

8:30 to 10:00 p. m.—Organ recital from the Princess Theater; Christmas concert by the Meyer Davis Orchestra.

FRIDAY, DECEMBER 26.

8:30 to 10:00 p. m.—Concert by the McCaffery Sextette of Hot Springs, with popular piano and specialty selections.

SATURDAY, DECEMBER 27.

8:30 to 10:00 p. m.—Concert program by the Meyer Davis Orchestra.

10:30 to 11:30 p. m.—Dance concert.

KYW—CHICAGO, ILL. (536 METERS)

(Central Time.)

SUNDAY, DECEMBER 21.

2:30 p. m.—Studio chapel service.

7:00 p. m.—Chicago Sunday Evening Club service will be broadcast.

TUESDAY, DECEMBER 23.

7:00 p. m.—Dinner concert broadcast from the Congress Hotel.

7:30 p. m.—"Around the Town With KYW in Chicago."

8:30 p. m.—Speeches under the auspices of the American Farm Bureau Federation.

8:50 p. m.—Musical program furnished by the Chicago Musical College.

10:00 p. m.—"Evening at Home" program.

WEDNESDAY, DECEMBER 24.

7:00 p. m.—Dinner concert broadcast from the Congress Hotel.

8:00 p. m.—Musical program will be furnished by the following artists: Louis Navigato, soprano; James Murray, tenor; Ned Santry, tenor.

9:45 p. m. to 2:30 a. m.—Midnight revue.

THURSDAY, DECEMBER 25.

8:30 p. m.—Musical program.

10:00 p. m.—"Evening at Home" program.

FRIDAY, DECEMBER 26.

7:00 p. m.—Dinner concert broadcast from the Congress Hotel.

8:00 p. m.—Speeches under the auspices of the American Farm.

9:00 to 10:00 p. m.—Midnight revue.

11:00 p. m. to 2:30 a. m.—Midnight revue continued.

SATURDAY, DECEMBER 27.

7:00 p. m.—Dinner concert broadcast from the Congress Hotel.

8:00 p. m.—Musical program: "Adele Brandt, contralto; Lewis Meehan, tenor."

9:30 to 11:30 p. m.—"Congress Classic."

12:00 p. m. to 2:00 a. m.—"Congress Carnival."

WBAP—FT. WORTH, TEX. (476 METERS)

(Central Time.)

SUNDAY, DEC. 21.

11:00 to 12:00 p. m.—Midnight frolics by Ted Miller's California jazz band, playing in lobby of the Crazy Wells Hotel, Mineral Wells, Tex., broadcast by remote control.

MONDAY, DEC. 22.

7:30 to 8:30 p. m.—"Moments From the Majestic," featuring stars of the week appearing at the Majestic Theater.

9:30 to 10:45 p. m.—Concert by the Euterpean Club.

TUESDAY, DEC. 23.

7:30 to 8:30 p. m.—Musical program arranged by Miss Virginia Wiley and assisting artists of McKinney, Tex.

9:30 to 10:45 p. m.—Organ concert by Will Foster, Duncan Robinson reciting modern poetry.

WEDNESDAY, DEC. 24.

7:30 to 8:30 p. m.—Concert offered by Sam Losh and assisting artists.

9:30 to 10:45 p. m.—Popular dance music by Jim Riley's Texas Hotel Orchestra.

12:00 p. m.—Special Christmas Eve frolic.

THURSDAY, DEC. 25.

7:30 to 8:30 p. m.—Program arranged by Mrs. J. E. Cooley and assisting artists.

9:30 to 10:45 p. m.—Fred Wagner with his "talking guitar."

FRIDAY, DEC. 26.

7:30 to 8:30 p. m.—Program arranged by Miss Ina Gilliland and assisting artists.

9:30 to 10:45 p. m.—Concert by Green River Orchestra of Wichita Falls, Tex.

WBZ—SPRINGFIELD, MASS. (337 METERS)

(Eastern Time.)

SUNDAY, DEC. 21.

7:30 p. m.—Musical program from Ford Hall Forum, by Marion Kingsbury, dramatic soprano.

8:30 p. m.—"Who Does Your Thinking for You?" by Margaret Slatery.

MONDAY, DEC. 22.

6:00 p. m.—Dinner concert by Westinghouse Philharmonic Trio.

11:30 p. m.—Concert of dance music by McEnelly's Singing Orchestra, direct from "The Butterfly."

TUESDAY, DEC. 23.

7:05 p. m.—A few minutes with Santa Claus, from WBZ's remote studio at the North Pole.

8:30 p. m.—Musical program arranged by May Delaney Beal.

WEDNESDAY, DEC. 24.

7:30 p. m.—Concert by Orpheus Club ensemble.

8:30 p. m.—Christmas carols by E. Rupert Sircorn, organist, and choir of First Unitarian Society of Newton.

11:45 p. m.—Program of popular music by Leo Reisman and his Hotel Brunswick Orchestra.

THURSDAY, DEC. 25.

6:30 p. m.—Classical music by the Leo Reisman Hotel Lenox ensemble.

7:45 p. m.—Musical selections by Charles R. Hector with his St. James Theater orchestra, direct from the St. James Theater.

8:15 p. m.—Recital by Lina Scott Jeffcott, dramatic soprano.

8:30 p. m.—Special organ recital from Estey Organ studio.

8:45 p. m.—Concert featuring a special request program by the Senior Choir of St. John's Congregational Church.

FRIDAY, DEC. 26.

7:30 p. m.—Lecture in musical appreciation course by Prof. Stuart Mason of

(Continued on Page 5.)

STATIONS

—Program of chimes from Mt. Avenue Methodist Episcopal Church.
THURSDAY, DEC. 25.
 —Concert by the KDKA Little Symphony Orchestra.
FRIDAY, DEC. 26.
 —Concert by the Hotel Schenker-Davis Orchestra.
 —Adams Male Quartet.
 —Concert by Westinghouse Club.
SATURDAY, DEC. 27.
 —Dinner concert by the Westinghouse Band.
 —Concert by the Westinghouse Band, assisted by Helen Rowe, contralto.
LOS ANGELES, CAL. (469 METERS)
 (Pacific Time.)
SUNDAY, DECEMBER 21.
 —Metropolitan Theater program.
 —One-act plays.
 —Program from Examiner Studio.
MONDAY, DECEMBER 22.
 —Huxley's Lake Arrowhead.
TUESDAY, DECEMBER 23.
 —Evening Herald program.
 —Walter M. Murphy Moton program.

WEDNESDAY, DECEMBER 24.
 —Program from Examiner Studio.
THURSDAY, DECEMBER 25.
 —Children's Christmas eve program.
FRIDAY, DECEMBER 26.
 —Program from Evening Herald Studio.
SATURDAY, DECEMBER 27.
 —Program from Examiner Studio.
SUNDAY, DECEMBER 28.
 —Don's Melody Makers (dance orchestra).
THURSDAY, DECEMBER 25.
 —Christmas play.
 —Instrumental trio.
 —Song recital.
 —Program from Examiner Studio.
FRIDAY, DECEMBER 26.
 —Chorus and organ recital.
SATURDAY, DECEMBER 27.
 —Acolian organ recital.
SUNDAY, DECEMBER 28.
 —Evening Herald program.
 —Program from Examiner Studio.
MONDAY, DECEMBER 29.
 —Vocal concert by pupils of Myra Belle Vickers.
TUESDAY, DECEMBER 30.
 —Dance orchestra and soloists.
WEDNESDAY, JANUARY 1.
 —Vocal and instrumental recital.
THURSDAY, JANUARY 2.
 —Program from Examiner Studio.
FRIDAY, JANUARY 3.
 —Packard Radio Club.

KGO—OAKLAND, CAL. (312 METERS)
 (Pacific Time.)
SUNDAY, DECEMBER 21.
 —Special musical service, featuring traditional carols, from the First Methodist Episcopal Church, Oakland, Cal.
MONDAY, DECEMBER 22.
 —Educational program. Music by Arion Trio. Agricultural course, "Agricultural Superstition," Prof. J. W. Nelson, University of California.
 —Program from 1:00 a. m.—Dance music program by Henry Halstead's Orchestra and soloists, Hotel St. Francis.
TUESDAY, DECEMBER 23.
 —"The Cricket on the Hearth," a drama in three acts, by Charles Dickens, presented by the KGO Players. Music by the Arion Trio.
 —Program from 1:00 a. m.—Dance music program by Henry Halstead's Orchestra and soloists, Hotel St. Francis.
WEDNESDAY, DECEMBER 24.
 —Christmas program by the KGO mixed quartet and instrumental trio. Laura Broedrick, soprano; Ruth Waterman, contralto; Carl Anderson, tenor; Richard Lundgren, bass; Julia Hannas Cochran, violinist; Joseph von der Ende, cellist; Dorothy Wines Reed, pianist. Assisted by Herbert L. Reed, speaker.
 —Program from 1:00 a. m.—Dance music program by Henry Halstead's Orchestra and soloists, Hotel St. Francis.
THURSDAY, DECEMBER 25.
 —Christmas program by the KGO mixed quartet and instrumental trio. Laura Broedrick, soprano; Ruth Waterman, contralto; Carl Anderson, tenor; Richard Lundgren, bass; Julia Hannas Cochran, violinist; Joseph von der Ende, cellist; Dorothy Wines Reed, pianist. Assisted by Herbert L. Reed, speaker.
 —Program from 1:00 a. m.—Dance music program by Henry Halstead's Orchestra and soloists, Hotel St. Francis.
SATURDAY, DECEMBER 27.
 —Program given by the faculty of the Musical Arts Institute of San Francisco and Redfern Mason, through the courtesy of Sherman, Clay & Co., Arthur Argiswicz, violinist; Willem Deba, cellist; Charles Hart, pianist; Carol Van Hulst, baritone; address, "Music," Redfern Mason; Violet Fensterblagg, soprano.
 —Program from 1:00 a. m.—Dance music program by Henry Halstead's Orchestra and soloists, Hotel St. Francis.

KGW—PORTLAND, ORE. (492 METERS)
 (Pacific Time.)
SUNDAY, DECEMBER 21.
 —Church services provided by the Portland Council of Churches.
 —Dinner concert by Colburn's Concert Orchestra of Hotel Portland; soloist, Minnie Pels, soprano.
 —Pre-Christmas concert by St. Mary's Cathedral choir.
MONDAY, DECEMBER 22.
 —Concert by the Oregonian Concert Orchestra.
 —Dance music by George Olsen's Metropolitan Orchestra of the Hotel Portland.
TUESDAY, DECEMBER 23.
 —Agricultural lecture provided by Oregon Agricultural College Extension Service. R. S. Fosse, subject, "Chasing Price Advances," and Prof. J. L. Fairbanks on "Art in the Home."
 —Concert arranged by Mrs. Fred L. Olson.
 —Dance music by Multnomah Hotel Strollers of the Multnomah Hotel.
WEDNESDAY, DECEMBER 24.
 —String and flute quintette concert arranged by Alicia McElroy.
THURSDAY, DECEMBER 25.
 —Program by George Olsen's Metropolitan Orchestra of the Hotel Portland.
FRIDAY, DECEMBER 26.
 —Celebration of Second Foot Owl anniversary by wire telephony from Hotel Portland.

KHJ—LOS ANGELES, CAL. (395 METERS)
 (Pacific Time.)
SUNDAY, DEC. 21.
 —An All-Cadman program arranged through the courtesy of Julie Keller, harpist.
 —Dinner concert by Colburn's Concert Orchestra of Hotel Portland; soloist, Minnie Pels, soprano.
TUESDAY, DEC. 22.
 —Program presented through the courtesy of the California Fruit Growers' Exchange.
WEDNESDAY, DEC. 23.
 —Program arranged by A. K. Berkland.
 —Earl Burnett's Biltmore Orchestra broadcasting from the Biltmore Hotel.
THURSDAY, DEC. 24.
 —Christmas program arranged by J. Howard Johnson.
FRIDAY, DEC. 25.
 —Program through the courtesy of the F. W. Kraemer Co., arranged by G. Byron Carr.
SATURDAY, DEC. 26.
 —Program arranged by Barbara Taylor Kleuruff.
 —Program presenting the Piggly Wiggly Girls; Hazel McLay, contralto; Adele Wright, soprano; George Hood, reader.
SUNDAY, DEC. 27.
 —Earl Burnett's Biltmore Orchestra broadcasting from the Biltmore Hotel.
MONDAY, DEC. 28.
 —Program presented through the courtesy of Ne Y. M. C. A.
 —Program arranged by J. Howard Johnson.
TUESDAY, DEC. 29.
 —Earl Burnett's Biltmore Orchestra broadcasting from the Biltmore Hotel.

KJW—PORTLAND, ORE. (492 METERS)
 (Pacific Time.)
SUNDAY, DECEMBER 21.
 —Church services provided by the Portland Council of Churches.
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 —Dinner concert by Colburn's Concert Orchestra of Hotel Portland; soloist, Minnie Pels, soprano.
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 —Program presented through the courtesy of the California Fruit Growers' Exchange.
WEDNESDAY, DEC. 23.
 —Program arranged by A. K. Berkland.
 —Earl Burnett's Biltmore Orchestra broadcasting from the Biltmore Hotel.
THURSDAY, DEC. 24.
 —Christmas program arranged by J. Howard Johnson.
FRIDAY, DEC. 25.
 —Program through the courtesy of the F. W. Kraemer Co., arranged by G. Byron Carr.
SATURDAY, DEC. 26.
 —Program arranged by Barbara Taylor Kleuruff.
 —Program presenting the Piggly Wiggly Girls; Hazel McLay, contralto; Adele Wright, soprano; George Hood, reader.
SUNDAY, DEC. 27.
 —Earl Burnett's Biltmore Orchestra broadcasting from the Biltmore Hotel.
MONDAY, DEC. 28.
 —Program presented through the courtesy of Ne Y. M. C. A.
 —Program arranged by J. Howard Johnson.
TUESDAY, DEC. 29.
 —Earl Burnett's Biltmore Orchestra broadcasting from the Biltmore Hotel.

KLV—LOS ANGELES, CAL. (395 METERS)
 (Pacific Time.)
SUNDAY, DEC. 21.
 —An All-Cadman program arranged through the courtesy of Julie Keller, harpist.
 —Dinner concert by Colburn's Concert Orchestra of Hotel Portland; soloist, Minnie Pels, soprano.
TUESDAY, DEC. 22.
 —Program presented through the courtesy of the California Fruit Growers' Exchange.
WEDNESDAY, DEC. 23.
 —Program arranged by A. K. Berkland.
 —Earl Burnett's Biltmore Orchestra broadcasting from the Biltmore Hotel.
THURSDAY, DEC. 24.
 —Christmas program arranged by J. Howard Johnson.
FRIDAY, DEC. 25.
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ARTISTS TO BE HEARD ON KSD PROGRAMS NEXT WEEK

MISS JEANNE
GUSTAVISON,
CONTRALTO

MRS. H. W. DALE, PIANIST



MRS. C. N. GREGG, SOPRANO



MRS. FRED J. BLUM, PIANIST

YALE
GLEE CLUB
QUARTET

Marion, O.
Just a word of thanks to KSD. Have listened in many times. Coming in good in spite of heavy static.

OLIVE L. YOUNG.

Anamoose, N. D.
I enjoyed the program given by the Exchange Club very much and hope to hear them again.

CLIFFORD GLOTZBACH.

Plattsburgh, N. Y.
Program coming in fine with loud speaker, volume and clear.

E. J. DUSTIN.

Wells, Nev.
Your program came in fine this evening. Many thanks for same.

W. H. SUPITZ.

Ann Arbor, Mich.
On Dec. 8 we heard your station broadcasting from the Grand Central Theater a soft shoe dance. Orchestral selections fine.

MR. AND MRS. R. D. SWISHER.

Waterville, Me.
Have heard you several times, but Saturday evening's program came in best of all. Enjoyed chorus singing "A Long Long Trail."

R. G. WARE.

Des Moines, Ia.
The greatest pleasure I have enjoyed for some time came to me very clear over my "Radio" about two weeks ago, when I listened to your wonderful Symphony Orchestra one evening for two hours. Life in a wheel chair has deprived me for four years of such treats, but now that I can bring the outside world to me I anxiously watch for the choice programs such as I hear from your station, but there are but few like your splendid St. Louis Symphony Orchestra.

MRS. N. B. FRANCE.

White Hall, Ill.
This is our periodical report of reception of almost all programs from KSD, and you hold attention over all others, perhaps because of your neighborly location to some extent.

R. B. PEARCE.

St. Louis.
Dinner music by Rader's Orchestra at M. A. A. enjoyed. Special mention as to "Selection From Faust," which was enjoyed very much.

MATTHEW A. RIEMANN.

Hamilton, Ont.
Your concerts are all good.

H. M. SMITH.

Collingwood, Ont.
I enjoyed your Saturday evening program immensely. You came in great. Hope you continue.

EUGENE HERRINGTON.

Lyon Brook, Nova Scotia.
Enjoyed a number of vocal numbers from your station. Among the number

Features on KSD Programs Next Week

MIDNIGHT mass on Christmas Eve at the Old Cathedral of St. Louis of France on Second and Walnut streets is to be broadcast by Station KSD. This is the third successive year when KSD has sent out by radio the solemn and beautiful service in the old French church, and in a response to requests from thousands of listeners all over the United States who heard the mass last year and the year before as broadcast by Station KSD. The Rev. Father Schulz, pastor of the church, and George Cibulka, organist and choirmaster, are arranging an especially beautiful program for the mass this year. The "Benedictus" from the Twelfth Mass by Mozart, "Agnus Dei," by Gluck; the "Credo" from the Third Mass by Haydn; Mercadante's beautiful "Gloria," and other equally impressive music will be included. While there will be no one prominent soloist; there will be incidental solos by Misses Alice Murphy, Marie Ballin, Gertrude Hoek, sopranos; F. J. Harwood, Bon-Janine Bloemker, Charles Blumme, tenors; Harry Masenplug, C. M. Saunders and William Sindelar, basses, and Miss Martha Cowan, alto. The mass will begin promptly at the stroke of midnight with the ringing of the chimes, and is expected to last until nearly 2 o'clock.

The Church of St. Louis of France is one of the oldest parishes of the Catholic Church in America, having been established in the latter part of the eighteenth century, shortly after the settlement of St. Louis by Auguste Chouteau and Pierre Laclède. For many years it was the cathedral church of this diocese and only ceased to be such with the dedication of the new cathedral at Lindell and Newstead avenues. Although of very plain Gothic architecture, the Old Cathedral, as it still is affectionately called, possesses a dignity and beauty that dominates the entire neighborhood. Accustomed to the church is one of the best in the Middle West, and for that reason the organ music, as well as the voices taking part in the mass, can be broadcast exceptionally well. Commendations and thanks for the sending out of this beautiful service by radio have been received from all parts of the United States, Canada, Mexico and Central America, and there is a general satisfaction expressed from all this vast territory that KSD will again broadcast the midnight Christmas mass.

The entire week which begins tonight will be taken up with Christmas music. One of the high lights will be the concert of the Yale University Glee and Mandolin Clubs at the Odeon on Tuesday evening. The Yale clubs are making a long tour this year, to include 13 cities. Their last appearance in St. Louis, two years ago, was largely attended by enthusiastic Yale men and other St. Louis music lovers, and was broadcast by KSD. The committee in charge this year is composed of E. G. Hatchkie, chairman; Arthur C. Hoskins, A. C. Crunden, Postus J. Wade Jr. and Fred Orthwein Jr.

The Yale Glee Club is at present a large organization with a chorus of 100 voices. It was started by the class of 1861, when a group of men made a short tour of the White Mountains. These men traveled about, singing at various hotels and theaters, wearing only their traveling clothes and paying little attention to the niceties of modern musical performance. In the early years of the club the singing was mostly of popular music and occasional college tunes. The glee club created the tradition of undergraduate singing for which Yale has been especially famous. The Banjo Club, an outgrowth of the glee club and has been in existence for 40 years.

The program Tuesday night will be broadcast in its entirety direct from the Odeon and will be heard with great interest by Yale alumni all over the United States. A Christmas cantata tonight given by the choir of the Westminster Presbyterian Church will be another interesting feature of the week. William M. Jenkins will direct this program, which will be in two parts, the first part miscellaneous and the second part taken up entirely with the cantata, "The Story of Bethlehem," by West. On Wednesday night there will be a program of Christmas carols given by a group of women who are members of the Morning Choral Club. There also will be a special Christmas program given in the studio at KSD by the choir of the University Presbyterian Church under the direction of John Morgan.

The usual events of the week, that is, the music broadcast direct from the Missouri and Grand Central theaters, Monday night, and broadcasting of the dinner music at the Missouri Athletic Association and Hotel Statler are included in the week's schedule. On Friday night a special concert given by Mrs. Arthur E. Dale, contralto, and Mrs. H. W. Dale, pianist, both Chicago artists, will take place. This recital also will be given in the KSD studio. The two artists are sisters-in-law, and appear frequently in joint recitals. Mrs. A. E. Dale lives in Danville, Ill., where she is active in music circles. Mrs. H. W. Dale is a professional pianist and very popular in and around her home city, Chicago.

A feature of the week will be two visits of the important old gentleman, Santa Claus, himself. On Tuesday afternoon Santa Claus will give a talk to the children and will make his address at 4:30 promptly. On Friday night at 8 o'clock he will come to say goodbye to the American children before departing for his home at the North Pole. All children are invited to listen in on both of these occasions.

After we place ourselves in the same position, as being in the theater you are broadcasting and when company is at the house we tell them how wonderful the theaters are in dear old St. Louis. Only wish you were on the air all the time.

A. P. KLASSE.

Owatonna, Minn.
Allow me to offer congratulations to your broadcasting station for the excellent programs sent out on the air at all

times. Most of the radio fans here tune out all other stations in order to listen in on KSD, for we are always certain to get the best in classic music, which, after all, is the best to broadcast. The theater programs are excellent and the station popular reception always good. Would that we had more broadcasting of your caliber. Thanking you in behalf of all radio fans in our neighborhood who enjoy your programs.

ESTHER SCHWAB.

Philadelphia, Pa.
I thank you for the interesting programs. I am to be congratulated from every one. May your power never grow less.

R. A. CULLEN.

Seattle, Wash.
Please tell the quartet we enjoyed their renditions very much. We are rest of the program.

F. FARRER.

Oak Lawn, R. I.
Heard Mrs. Lora Miller Burke singing piano solo. Reception was

JOHN L. SPARKS.

Wilkes Barre, Pa.
Enjoyed the quartet and other casting very much. Very distinct and clear. Best regards.

M. W. MCCARTHY.

Hamilton, Bermuda, Bham.
I often listen in and enjoy your programs and get quite elated though so many hundreds of miles away from you in mid-Atlantic.

WALTER E. SPURLIN.

Queens, N. C.
We heard last night your broadcast very clearly on loud speaker. "I Want to Be Happy," from opera, "The Naxos," also "One Stolen Kiss" and selection from Il Trovatore. We are about 450 miles directly north of St. Louis and as I am quite an amateur I thought I was doing fairly well. We enjoyed the concert very much.

MRS. W. E. THORNE.

Providence, R. I.
Enjoyed your program last night. Special thanks to Rainbo Girls.

F. H. FRANKLIN.

Marion, O.
We received your program last night. Special thanks to Rainbo Girls.

MR. AND MRS. S. E. HOLLAND.

Cleveland, O.
Received your concert very good and loud and enjoy the music and singing very much. Wishing you a Merry Christmas and Happy New Year.

FRED BURDET.

Big Sandy, Mass.
Tuned in on KSD last night just in time to hear the last two numbers of the program by the Exchange Club. Many thanks to the Post-Dispatch and the artists.

JOHN B. GIBNEY.

Mount, Mo.
Always your friend, I think KSD is the best on the air, as the quality of programs speaks for itself.

HERBERT C. SPANCK.

Holcomb, Mo.
I was an ethereal guest at a very quiet tonight at the City Club. The delicacies "lay mighty light on my stomach," but the verbal sentiments expressed by the speakers lightened the which had almost been extinguished. That is the KSD spirit. Thank you.

W. W. WHITAKER.

RADIO PRO

the New England Conservatory of Music, under the auspices of the Commonwealth of Massachusetts, Department of Education, Boston.

SATURDAY, DEC. 27.
6:30 p. m.—Instrumental concert by Copley Plaza Orchestra.
7:30 p. m.—After-dinner concert by H. Kimball Trio.
9:00 p. m.—Program by Leon Weltman and assisting soloists from Weltman Conservatory of Music.
9:30 p. m.—Concert by G. F. Helm, trumpeter.

WCAE—PITTSBURG, PA. (462 METERS)
(Eastern Time.)

SUNDAY, DECEMBER 21.
4:00 p. m.—Piano recital by Prof. Otto Kallies.
6:30 p. m.—Dinner concert transmitted from William Penn Hotel.

MONDAY, DECEMBER 22.
6:30 p. m.—Dinner concert transmitted from William Penn Hotel.
8:30 p. m.—Concert by artist-pupils from the studios of Mme. Lelia Wilson-Smith.
10:30 p. m.—Flight of The Mythical Dirigible.

TUESDAY, DECEMBER 23.
6:30 p. m.—Dinner concert transmitted from William Penn Hotel.
8:30 p. m.—Concert.
9:00 p. m.—Concert by the National Carbon Co.'s Eveready Entertainers transmitted from the studios of Station WEA, New York.
10:00 p. m.—Concert by the Goodrich Silvertown Cord Orchestra, sponsored by the R. F. Goodrich Rubber Co., transmitted from the studios of Station WEA, New York.

WEDNESDAY, DECEMBER 24.
6:30 p. m.—Dinner concert transmitted from William Penn Hotel.
8:30 p. m.—Concert by artists and orchestra, transmitted direct from the Nixon Restaurant.

THURSDAY, DECEMBER 25.
6:30 p. m.—Dinner concert transmitted from William Penn Hotel.
8:30 p. m.—Christmas concert.

FRIDAY, DECEMBER 26.
6:30 p. m.—Dinner concert transmitted from William Penn Hotel.
8:30 p. m.—Musical program.
9:00 p. m.—Concert by the B. Fisher & Co. "Astor Coffee" dance orchestra transmitted from the studios of Station WEA, New York.

SATURDAY, DECEMBER 27.
6:30 p. m.—Dinner concert transmitted from William Penn Hotel.
8:30 p. m.—Concert by artists representing Malate Post No. 12, Veterans of Foreign Wars.

WCBZ—ZION CITY, ILL. (345 METERS)
(Central Time.)

SUNDAY, DECEMBER 21.
5:00 p. m.—Program given by the mixed quartet, assisted by the following performers: Mr. and Mrs. G. H. Sparrow, tenor and contralto; Miss Emma Reynolds, soprano; Miss Edith Carey, contralto; Mr. G. R. Sparrow, tenor; Mrs. G. R. Sparrow, contralto; Carey Sisters, duet; Misses Wiedman Taylor, Phil and Mrs. Bishop, celestial bells; Messrs. Daniel and Gerald Mason, trombones and cornet; Mr. Herman Becker, cello; Mr. Richard H. Hira, piano.

MONDAY, DECEMBER 22.
8:00 p. m.—Program given by the mixed quartet, assisted by the following performers: Messrs. Mahaffey, Restall, Sach and McElroy, celestial bells; Mr. Fred Fauson, organ; Mrs. J. J. Thomas, baritone; Mr. and Mrs. J. J. Thomas, soprano and baritone; Mr. J. D. Thomas, soprano; Mr. Richard F. Hira, violin; Mrs. Susie Bart Smith, reader; Mr. and Mrs. David McElroy, piano duet.

THURSDAY, DECEMBER 25.
8:00 p. m.—A special Christmas program given by Zion Junior Choir as the pupils of the kindergarten class.

WCCO—MINNEAPOLIS, MINN. (417 METERS)
(Central Time.)

SUNDAY, DECEMBER 21.
7:20 p. m.—Second Church of Christ.
9:15 p. m.—Twin City String Quartet.

MONDAY, DECEMBER 22.
8:30 p. m.—Montana night.
10:00 p. m.—Golden Pheasant Orchestra.

TUESDAY, DECEMBER 23.
6:30 p. m.—George Osborn's Original Nicollet Hotel Orchestra.

WEDNESDAY, DECEMBER 24.
7:00 p. m.—Midweek church service Calvary Baptist Church, Minneapolis.
10:45 p. m.—Christmas eve service Central Lutheran Church.

THURSDAY, DECEMBER 25.
8:00 p. m.—Biley's Concert Orchestra, St. Paul Hotel.
10:00 p. m.—George Osborn's Original Nicollet Hotel Orchestra.

FRIDAY, DECEMBER 26.
8:00 p. m.—Program to be announced.

WEEK



FRED J. BLUM, PIANIST



Most of the radio fans here tune in other stations in order to listen to KSD, for we are always certain to find the best in classic music, which, all is the best to broadcast. Your programs are excellent and your popular reception always good. That we had more broadcasting of your caliber. Thanking you in behalf of radio fans in our neighborhood enjoy your programs.

ESTHER SCHIVEN.

Philadelphia, Pa.
Thankfully continue to tune in your evening programs nightly. You are congratulated from every angle. Your power never grows less.

R. A. CULLEN.

Seattle, Wash.
Please tell the quartet we enjoyed your renditions very much, also the of the program.

F. PARRISH.

Oak Lawn, R. I.
Thank Mrs. Lora Miller Burke for piano solo. Reception fine.

JOHN L. SPERRY.

Wilkes Barre, Pa.
Enjoyed the quartet and other broadcasting very much. Very distinct and best regards.

W. W. McCARTY.

Hamilton, Bermuda Islands.
Often listen in and enjoy your fine programs and get you quite clearly, though so many hundreds of miles away from you in mid-Atlantic.

WALTER E. SPURLING.

Queens, N. C.
We heard last night your broadcasting clearly on loud speaker. "I Want Be Happy," from opera "No, No, Nanette," also "One Stolen Kiss," and "The Merry Widow." We are at 450 miles directly north of Seattle as I am quite an amateur. I thought was doing fairly well. We enjoyed concert very much.

MRS. W. E. THORNE.

Providence, R. I.
Enjoyed your program Dec. 10 very much. Reception was excellent.

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Marion, Ore.
We received your program last night. Special thanks to Rainbo Girls.

MR. AND MRS. S. E. ROLAND.

Cleveland, O.
Received your concert very good and and enjoy the music and singing very much. Wishing you a Merry Christmas and Happy New Year.

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Always your friend, I think KSD is the best on the air, as the quality of programs speaks for itself.

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7:30 p. m.—After-dinner concert by Hotel Kimball Trio.
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8:30 p. m.—Concert.
8:30 p. m.—Concert by the National Carbon Co.'s Eveready Entertainers, transmitted from the studios of Station WEAJ, New York.

10:00 p. m.—Concert by the Goodrich Silvertown Cord Orchestra, sponsored by the B. F. Goodrich Rubber Co., transmitted from the studios of Station WEAJ, New York.

WEDNESDAY, DECEMBER 24.
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8:30 p. m.—Concert by artists and orchestra, transmitted direct from the Nixon Restaurant.

THURSDAY, DECEMBER 25.
8:30 p. m.—Dinner concert transmitted from William Penn Hotel.
8:30 p. m.—Christmas concert.

FRIDAY, DECEMBER 26.
8:30 p. m.—Dinner concert transmitted from William Penn Hotel.
8:30 p. m.—Concert by the B. Fisher & Co. "Astor Coffee" dance orchestra, transmitted from the studios of Station WEAJ, New York.

SATURDAY, DECEMBER 27.
8:30 p. m.—Dinner concert transmitted from William Penn Hotel.
8:30 p. m.—Concert by artists representing Malate Post No. 12, Veterans of Foreign Wars.

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8:30 p. m.—Montana night.
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TUESDAY, DECEMBER 23.
8:30 p. m.—George Osborn's Original Nicollet Hotel Orchestra.

WEDNESDAY, DECEMBER 24.
7:00 p. m.—Midweek church service, Calvary Baptist Church, Minneapolis.
10:45 p. m.—Christmas eve service, Central Lutheran Church.

THURSDAY, DECEMBER 25.
8:30 p. m.—Bile's Concert Orchestra, St. Paul Hotel.
10:30 p. m.—George Osborn's Original Nicollet Hotel Orchestra.

FRIDAY, DECEMBER 26.
8:30 p. m.—Program to be announced.

SATURDAY, DECEMBER 27.
8:30 p. m.—Musical program to be announced.
8:30 p. m.—St. Paul Athletic Club Orchestra.

WDAF—KANSAS CITY, MO. (411 METERS)
(Central Time.)

SUNDAY, DECEMBER 21.
4:00 to 5:00 p. m.—Program of classical music by The Star Radio Orchestra.

MONDAY, DECEMBER 22.
3:30 to 4:30 p. m.—The Star's Radio Trio.
5:00 to 5:30 p. m.—Weekly Boy Scout program, presented by Kansas City Council of Boy Scouts.

5:50 to 6:00 p. m.—Marketgram, weather forecast, time signal and road report.
6:00 to 7:00 p. m.—(School of the Air): Piano tuning-in number on the Duo-Art. Address, C. H. Cheney, sixth of a series of talks on banking. The Tell-Me-a-Story Lady. Music, The Hanlein-Knutson Trio.

8:00 to 9:15 p. m.—"Around the Town With WDAF."
11:45 p. m. to 1 a. m.—(Nighthawk Frolic)—The "Merry Old Chief" and the Plantation Players, Hotel Muehlebach.

TUESDAY, DECEMBER 23.
3:30 to 4:30 p. m.—The Star's Radio Trio.
5:00 to 5:30 p. m.—Weekly child talent program given by the junior division of the second district, Missouri Federated Music Club.

5:50 to 6:00 p. m.—Marketgram, weather forecast, time signal and road report.
6:00 to 7:00 p. m.—(School of the Air): Piano tuning-in number on the Duo-Art. The Tell-Me-a-Story Lady. Tenth of a series of radio piano lessons, Miss Maudie Littlefield. Music, The Hanlein-Knutson Trio.

8:00 to 9:15 p. m.—"Around the Town With WDAF."
11:45 p. m. to 1 a. m.—(Nighthawk Frolic)—The "Merry Old Chief" and the Plantation Players, Hotel Muehlebach.

WEDNESDAY, DECEMBER 24.
3:30 to 4:30 p. m.—The Star's Radio Trio.
5:00 to 6:00 p. m.—Marketgram, weather forecast, time signal and road report.

6:00 to 7:00 p. m.—(School of the Air): Piano tuning-in number on the Duo-Art. Address, speaker under the auspices of the Health Conservation Association. Address, speaker from the Meat Council of Greater Kansas City. The Tell-Me-a-Story Lady. Music, The Hanlein-Knutson Trio.

8:00 to 9:15 p. m.—Special Christmas program, carols and Santa Claus.
11:45 p. m. to 1 a. m.—(Nighthawk Frolic)—The "Merry Old Chief" and the Plantation Players, Hotel Muehlebach.

THURSDAY, DECEMBER 25.
3:30 to 4:30 p. m.—The Star's Radio Trio.
5:00 to 6:00 p. m.—Marketgram, weather forecast, time signal and road report.

6:00 to 7:00 p. m.—(School of the Air): Piano tuning-in number on the Duo-Art. Reading, Miss Cecile Burton from popular poems and essays. The Tell-Me-a-Story Lady. Music, The Hanlein-Knutson Trio.

8:00 to 9:15 p. m.—(Nighthawk Frolic)—The "Merry Old Chief" and the Plantation Players, Hotel Muehlebach.

FRIDAY, DECEMBER 26.
3:30 to 4:30 p. m.—The Star's Radio Trio.
5:00 to 6:00 p. m.—Marketgram, weather forecast, time signal and road report.

6:00 to 7:00 p. m.—(School of the Air): Piano tuning-in number on the Duo-Art. Address, speaker from the Kansas City Children's Bureau. The Tell-Me-a-Story Lady. Music, The Hanlein-Knutson Trio.

8:00 to 9:30 p. m.—Popular program by the Star's Radio Orchestra and the WDAF Minstrels.
11:45 p. m. to 1 a. m.—(Nighthawk Frolic)—The "Merry Old Chief" and the Plantation Players, Hotel Muehlebach.

SATURDAY, DECEMBER 27.
3:30 to 4:30 p. m.—The Star's Radio Orchestra.
5:00 to 6:00 p. m.—Marketgram, weather forecast, time signal and road report.

6:00 to 7:00 p. m.—(School of the Air): Piano tuning-in number on the Duo-Art. Address, speaker to be announced. The Tell-Me-a-Story Lady. Music, The Hanlein-Knutson Trio.

8:00 to 9:15 p. m.—(Nighthawk Frolic)—The "Merry Old Chief" and the Plantation Players, Hotel Muehlebach; Cordes-Mac's Orchestra, Hotel Bellevue.

WDAR—PHILADELPHIA, PA. (395 METERS)
(Eastern Time.)

MONDAY, DEC. 22.
8 p. m.—Arcadia Cafe Concert Orchestra, Feri Sarkoz, director.
8:30 p. m.—Artist recital from the studio.

8:30 p. m.—Features from the Stanley Theater; overture by the Stanley Symphony Orchestra.
10 p. m.—Arcadia Cafe Dance Orchestra. Vaudeville features from Fay's Knickerbocker Theater.

WEDNESDAY, DEC. 24.
8:15 p. m.—Program of dance music broadcast from the control room in the Green Hill Farms Hotel, Overbrook, Pa., Kentner Green Hill Farms Orchestra. Artist recital from the studio.
10 p. m.—Arcadia Dance Orchestra; Salvatore Pizza, director.

THURSDAY, DEC. 25.
10 p. m.—Meeting of the Morning Glory Club. Arcadia Dance Orchestra.
1 a. m.—Features from the studio.

WEAF—NEW YORK, N. Y. (492 METERS)
(Eastern Time.)

SUNDAY, DEC. 21.
7:20 p. m.—Musical program direct from Capitol Theater, New York City, by "Rory and His Gang."
9:15 p. m.—Organ recital direct from the studio of the Skinner Organ Co., New York City.

MONDAY, DEC. 22.
6:00 to 11:30 p. m.—Dinner music by the W. E. A. F. Instrumental Quartet, under the direction of James A. N. Caruso; Myrtle Wagner Whit, coloratura soprano; musical program direct from the Mark Strand Theater; the Three Peasants; music by the A. and P. Gypsies; Choir Invisible, direct from Washington, D. C., under direction of Otto Torney Simon; Midnight Sons' dance orchestra.

TUESDAY, DEC. 23.
6:00 to 11:30 p. m.—Dinner music by WEAF Instrumental Quartet; Mount Royal Orchestra; Cora C. Griffin, contralto; Arthur Parker String Quartet; talk by Bank of America; "Is Christmas a Bore?" by James Montgomery Flagg, famous artist; the Gold Dust Twins; Eveready hour; the Goodrich Silvertown Cord Orchestra, under direction of Joseph Knecht.

WEDNESDAY, DEC. 24.
6:00 to 11:30 p. m.—Dinner music by WEAF Instrumental Quartet; mid-week services by the Federation of Churches; carol service by St. James Boys' Choir; concert by Waldorf Astoria orchestra, direct from lobby of hotel; Hawaiian Christmas music by Robert Yap Hawaiian ensemble; Aida brass quartet.

FRIDAY, DEC. 26.
6:00 to 12:00 p. m.—Dinner music by WEAF Instrumental Quartet; Joseph B. Free, baritone; Gordon Soule, concert pianist; children's stories, by Blanche Elizabeth Wade; the G. R. Kinney Co. story teller; the Happiness Candy Boys; G. Schirmer musicale, by Jackson Kinsey, baritone; B. Fischer & Co.'s "Astor Coffee" Orchestra; Schubert Trio; Meyer Davis' "Palm Beach" Orchestra, from Lido Venice Restaurant.

SATURDAY, DEC. 27.
6:00 to 12:00 p. m.—Dinner music by WEAF Instrumental Quartet; boys' stories by Fred J. Turner; Hohner harmony hour; Christmas surprise program; Cantor Aaron Katchko, baritone; Vincent Lopez and his orchestra from grill of Hotel Pennsylvania.

WEBB—CHICAGO, ILL. (370 METERS)
(Central Time.)

SUNDAY, DEC. 21.
5 p. m.—Twilight musicale.
7:00 p. m.—Selected artists' program.

TUESDAY, DEC. 23.
7:00 p. m.—Edgewater Beach Oriole Orchestra; Pat Barnes, tenor and reader; musical bits from Balaban & Katz Riviera Theater.
9:00 p. m.—Radio age program; Dennis sisters, songs; piano solo, Dean Remick; Edgewater Beach Oriole Orchestra.

11:00 p. m.—Loos brothers; Riviera Revue; Edgewater Beach Oriole Orchestra.

WEDNESDAY, DEC. 24.
7:00 p. m.—Edgewater Beach Oriole Orchestra; musical bits from Balaban & Katz Riviera Theater; piano solo, Dean Remick.
9:00 p. m.—Langdon brothers; Marie Kelly, readings; Frederick Agard, tenor; Bob Cougle, accompanist; Edgewater Beach Oriole Orchestra.
11:00 p. m.—Langdon brothers; Marie Kelly, readings; Edna Solomon, contralto; Edgewater Beach Oriole Orchestra.

THURSDAY, DEC. 25.
7:00 p. m.—Edgewater Beach Oriole Orchestra; Dean Remick, pianist; John Stamford, tenor; Belle Forbes Cutter, soprano; Edgewater Beach Oriole Orchestra.
11:00 p. m.—Harry Davis, baritone; Loos brothers, songs; Banks Kennedy, pianist.

analogues; John Stamford, tenor; Edgewater Beach Oriole late revue.

FRIDAY, DEC. 26.
7:00 p. m.—Hazel O'Neil, soprano; Edgewater Beach Oriole Orchestra; musical bits from Balaban & Katz Riviera Theater.
9:00 p. m.—Edgewater Beach Oriole Orchestra; Frederick Agard, tenor; Rita McFawn, soprano.
11:00 p. m.—Edgewater Beach Oriole Orchestra; Three Musketeers; Sandy Meek, tenor.

SATURDAY, DEC. 27.
7:00 p. m.—Edgewater Beach Oriole Orchestra; musical bits from Balaban & Katz Riviera Theater.
9:00 p. m.—Langdon brothers; Edgewater Beach Oriole Orchestra; Marie Kelly, readings.
11:00 p. m.—Edgewater Beach Oriole Orchestra; Cambridge sisters, songs; Langdon brothers, Hawaiian guitars; Banks Kennedy, pianist; Wayne Meyers; Loos brothers.

WFAA—DALLAS, TEX. (476 METERS)
(Central Time.)

SUNDAY, DECEMBER 21.
6:00 to 7:00 p. m.—Radio Bible class.
7:30 to 8:45 p. m.—Evening service of the First Presbyterian Church.
9:30 to 11:00 p. m.—Jack Gardner and his orchestra in popular music recital.

MONDAY, DECEMBER 22.
8:30 to 9:30 p. m.—Musical recital, John Thorward, baritone, and assisting Dallas musicians.

TUESDAY, DECEMBER 23.
8:30 to 9:30 p. m.—Mrs. Mamie Folsom Wynne and her carolers in Christmas music.
11:00 to 12:00 p. m.—Dwight Brown, organist, in recital at the Palace Theater.

THURSDAY, DECEMBER 25.
8:30 to 9:30 p. m.—The McDowell Sisters, Miss Edith and Miss Grace, in Hawaiian music recital, singing and playing.
11:00 to 12:00 p. m.—The Adolphus Hotel Orchestra.

FRIDAY, DECEMBER 26.
8:30 to 9:30 p. m.—Grace Methodist Church Orchestra, in classical and favorite selections.

SATURDAY, DECEMBER 27.
8:30 to 9:30 p. m.—Joseph B. Rucker, basso, Mrs. Joseph B. Rucker, pianist.
11:00 to 12:00 p. m.—Adolphus Hotel Orchestra.

WGBS NEW YORK, N. Y. (316 METERS)
(Eastern Time.)

SUNDAY, DEC. 21.
12:30 p. m.—Matinee musicale from the Piccadilly Theater.
2:30 p. m.—A musical Christmas, under the direction of Dr. Sigmund Spaeth and Dalley Paskman.

MONDAY, DEC. 22.
6:30 p. m.—Talaieff and his Russian Dance Orchestra. Hazel Dore, pianist.
8:30 p. m.—Level Club Entertainers. "How a Newspaper Goes to Press," Porter Caruthers.

TUESDAY, DEC. 23.
8:30 p. m.—Level Club Entertainers. "How a Newspaper Goes to Press," Porter Caruthers.

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RADIO PROGRAMS FOR THE WEEK—Continued

10:45 p. m.—Chris Meehan, Songs of Yesterday and Today.
11 p. m.—Vincent Rose Orchestra from Crystal Room, Hotel Ritz-Carlton.

WEDNESDAY, DEC. 24.

6:30 p. m.—Clarence Williams, Eva Taylor and Clarence Todd, entertainers. Ed Equile's One-Man Radio Show.

THURSDAY, DEC. 25.

9 p. m.—Reading of O. Henry's "Gift of the Magi," by Randolph Sommerville. Christmas carol. William Stewart, Christmas verses. Mr. Harold F. Noble, tenor.
11 p. m.—Special program direct from studio in Piccadilly Theater.

FRIDAY, DEC. 26.

6:30 p. m.—Nat Martin's "I'll Say She Is" Orchestra.

SATURDAY, DEC. 27.

7:30 p. m.—Armand Veecey and Ritz-Carlton Concert Orchestra.
9:30 p. m.—Peter Pan Night, arranged by Sam Comly. Those participating include Betty Bronson, star; Herbert Brenon, director; and Jesse Lasky, producer, of screen version of Barrie's famous story.
10 p. m.—Mrs. Frank Leslie, soprano, and James J. MacDermitt, pianist. Henry E. Biel, violinist. Mrs. Frank Leslie, soprano; James J. MacDermitt, pianist. Victor Wilbur and Joe Macy, popular songs.
11 to 12 p. m.—Russian Eagle Orchestra.

WGR—BUFFALO, N. Y. (319 METERS) (Eastern Time.)

SUNDAY, DECEMBER 21.

4:00 p. m.—Organ recital, John P. Gundersen Jr., organist.
7:15 p. m.—Pre-service organ recital, direct from Central Presbyterian Church. Evening service direct from Central Presbyterian Church. Sermon, "Christ and Christmas."
9:30 p. m.—Recital by Mrs. E. Retter.
10:00 p. m.—Under the personal direction of Howard Hartell.

TUESDAY, DECEMBER 23.

9:00 p. m.—National Carbon Co.'s Evening hour, broadcast jointly with Station WEA, New York City.

9:00 p. m.—Recital, Marion Shaw, pianist, Gertrude Thompson, reader.
9:30 p. m.—Festival of Light program (Chanuka), Jewish Community Building.
11:30 p. m.—Christmas carols, harp and ladies' quartet, Miss Gertrude Hutchinson in charge.

FRIDAY, DECEMBER 26.

9:00 p. m.—B. Fischer & Co., Astor Coffee House Orchestra, broadcast jointly with WEA, New York City.
10:00 p. m.—Musical program under direction of Mrs. E. C. Bettinger.
11:30 p. m.—Supper music, Vincent Lopez Hotel Statler Orchestra.

WGY—SCHENECTADY, N. Y. (380 METERS) (Eastern Time.)

SUNDAY, DECEMBER 21.

5:00 p. m.—Organ recital by Dr. Frank Sill Rogers, from St. Peter's Episcopal Church.
7:30 p. m.—Service of First Lutheran Church.
9:00 p. m.—Program of symphony music by Waldorf-Astoria Orchestra, New York, Joseph Knecht, conductor, also broadcast by WJZ, New York.
11:30 p. m.—Concert under the auspices of the Kentucky Night Owls. Soprano solos, Miss Alice Munroe, Jeffersonville, Ind.

TUESDAY, DECEMBER 23.

10:00 p. m.—"Brunswick Hour of Music," by Brunswick record artists; also broadcast by WJZ, New York.
11:30 p. m.—Organ recital by Stephen E. Boicclair.

WEDNESDAY, DECEMBER 24.

11:30 p. m.—Music by Stephen E. Boicclair, organist, Rose Mountain, contralto, and Marion Brewer, soprano.

THURSDAY, DECEMBER 25.

8:00 p. m.—Christmas Cantata in four parts, "The Hope of the World," by P. A. Schaefer, sung by the WGY Studio

Mixed Double Quartet; assisted by the WGY Orchestra.
1:30 p. m.—Organ recital by Stephen E. Boicclair, from Proctor's Harmonus Bleeker Hall.

FRIDAY, DECEMBER 26.

8:00 p. m.—Program by Leonard W. Grant, baritone; Wendell Fallis, violin; Mrs. John May, soprano.
10:30 p. m.—Program of dance music by Lou Volin's Music Box.

SATURDAY, DECEMBER 27.

9:30 p. m.—Dance music by Phil Romano's Orchestra from New Kenmore Hotel; popular songs.

WHAS—LOUISVILLE, KY. (400 METERS) (Central Time.)

SUNDAY, DECEMBER 21.

4:00 to 5:00 p. m.—Vesper song service under the auspices of the First Unitarian Church.

TUESDAY, DECEMBER 23.

7:30 to 9:00 p. m.—Concert by Rossen's Entertainers of Jeffersonville, Ind.

WEDNESDAY, DECEMBER 24.

7:30 to 9:00 p. m.—Concert by the K. & L. Terminal Railroad Orchestra. Selections by the string division of the K. & L. Terminal Railroad Orchestra.

THURSDAY, DECEMBER 25.

7:30 to 9:00 p. m.—Concert by Barney Rapp's Orchestra at the Brown Hotel.

FRIDAY, DECEMBER 26.

7:30 to 9:00 p. m.—Concert under the auspices of the Kentucky Night Owls. Soprano solos, Miss Alice Munroe, Jeffersonville, Ind.

SATURDAY, DECEMBER 27.

7:30 to 9:00 p. m.—Concert by the Synopatin' Six, E. E. Cutor, director; specialty by Frank Wright and Frank Bessinger.

WHAZ—TROY, N. Y. (380 METERS) (Eastern Time.)

MONDAY, DECEMBER 22.

9:00 to 12:00 p. m.—Rensselaer Polytechnic Institute Night. Concert by Students' Glee Club, Students' Symphony Orchestra and Campus Serenaders, with talk by a member of the faculty.

WEDNESDAY, DECEMBER 24.

7:00 to 8:00 p. m.—Musical program arranged and presented by Miss Bernice Griffith.

THURSDAY, DECEMBER 25.

8:00 to 10:00 p. m.—Special Christmas program.

FRIDAY, DECEMBER 26.

7:00 to 8:00 p. m.—Piano recital by pupils of Mary Neally Hinkle, W. C. T. U. address by Mrs. Fannie L. Taylor, State president of the Federated W. C. T. U. Music by Gilbert Jaffy's Orchestra from the Pekin Gate.

SUNDAY, DECEMBER 21.

7:30 p. m.—Mr. Don Marchant, cornet

solist artists under direction of Prof. Charles Houssau.

MONDAY, DECEMBER 22.

7:30 p. m.—Scott Kittle Band of Des Moines. Artists under direction of Dean Holmes Cowper of Drake University, Des Moines, Ia.

11:15 to 12:00 p. m.—Organ recital, Carlos Meier, organist at the Capitol Theater.

WEDNESDAY, DECEMBER 24.

7:30 p. m.—Christmas program including soprano solos by Selma Mae Allen Herndon; violin solos by Eugene Burton, and selections by the Bankers Life Radio Orchestra, under direction of W. L. Marsh.

FRIDAY, DECEMBER 26.

7:30 p. m.—The Williamson Brothers, banjo, mandolin and guitar artists. Mr. J. E. Scovel, baritone soloist, Mrs. Margaret Leach, soprano.

WIP—PHILADELPHIA, PA. (509 METERS) (Eastern Time.)

SUNDAY, DEC. 21.

7:15 p. m.—Evening service, broadcast direct from Holy Trinity Church.
9:30 p. m.—Ben Stad and his WIP Symphony Orchestra, with Karl Bonawitz at the organ, broadcast direct from the Germantown Theater.

TUESDAY, DEC. 23.

8 p. m.—"The Theater," Elliott Lester.
8:15 p. m.—Direct broadcast from the Eastern State Penitentiary, Philadelphia, of a special Christmas program given entirely by the inmates.

10:30 p. m.—"Emo's Weekly Movie Broadcast," by Eli M. Orowitz and a surprise program by O'Della Hippodrome Theater Orchestra of Pottstown, Pa., under the direction of Jerry O'Dell. Courtesy of George Beaumont Theaters.

11 p. m.—Dance music by Harry M. Burger and his Vaudeville Orchestra, broadcast direct from the Cafe L'Aiglon.

THURSDAY, DEC. 25.

8 p. m.—Concert by the Philadelphia Police Band, under the direction of Lieut. Joseph Klefer, broadcast from the Police Bandroom.

11 p. m.—Dance music by Harry M. Burger and his Vaudeville Orchestra, broadcast from the Cafe L'Aiglon.

SATURDAY, DEC. 27.

8 p. m.—"The Romance of Chemistry," Charles H. La Wall, Ph. M., So. D.
8:15 p. m.—Artist's recital by H. Ralph Wiedler, baritone; Flora Ripka, piano. Book reviews by Robert A. Washman, literary critic of Station WIP.

10:05 p. m.—Dance music by Art Coates and his orchestra, broadcast from the Club Madrid.

11:05 p. m.—Organ recital by Karl Bonawitz, broadcast direct from the Germantown Theater.

WJAX—CLEVELAND, O. (390 METERS) (Eastern Time.)

MONDAY, DECEMBER 22.

7:00 p. m.—Musical program broadcast direct from Loew's State Theater.

TUESDAY, DECEMBER 23.

7:00 p. m.—Program presented featuring the choir from St. Stephen's Church. Final visit from Santa Claus. Vocal and instrumental solos; dance selections.

WEDNESDAY, DECEMBER 24.

7:00 p. m.—Christmas carols by members of the St. Cecilia Society of Akron.

WJY—NEW YORK, N. Y. (405 METERS) (Eastern Time.)

SUNDAY, DEC. 21.

8:15 p. m.—Bernard Levitt's Hotel Commodore Concert Orchestra.
10:00 p. m.—"Reminiscences of a Reporter," William H. Crawford.

TUESDAY, DEC. 23.

8:15 p. m.—Duets, Harold J. Bray, tenor

What Engineers Are Doing in Radio Field

(Continued From Page 1.)

communication companies, military services, amateurs; in short, every important radio interest has begun operations between 20,000 and 30,000 kilocycles. Even higher frequencies have been used in experiments, but there is every likelihood that in the development of frequencies above 30,000 kilocycles directive transmission will predominate and the problem will be of a distinctly different character.

So important are these high frequencies now, the Third National Radio conference, held in October, 1924, parceled out the high-frequency territory among the various radio services, thus reaching a solution of a problem which only a year ago was regarded as insoluble, that of finding more communication channels. Alternate frequency bands approximately 10 per cent wide were assigned to the following different services: Land point-to-point, aircraft, ship, relay broadcasting, public service, amateur and army mobile. An important principle was followed in this assignment, viz, each service was protected from possible harmonic interference from stations of other services by placing several frequency bands of any given service on its own harmonics.

Great improvements are in progress in directive or "beam" transmission. It is accomplished by using a number of transmitting antennas and so adjusting the phases of the current in each, in relation to their distances apart, that reinforcement of radiation is obtained in one direction and more or less naturalization of radiation in other directions. An obvious advantage of beam transmission is that much lower power is required than in ordinary radio transmission, since the transmitting power is all utilized in sending the waves in the desired direction instead of all directions. This important advantage, which means reduced cost, will probably not be fully realized because the great ratio of transmission in the desired or undesired directions is probably reduced as the wave spreads out to great distances. The undoubtedly great directivity for relatively short distances from the transmitting station, however, offers highly important advantages in another particular direction.

the reduction of interference caused by the transmitting station.

One of the principal means of overcoming interference between the transmissions from simultaneously operating radio stations is obviously the increase of selectivity or narrowing of the band of frequency which each station uses. Progress in this direction is being made in all the various types of transmission, as, for example, through the use of filtering devices for radio telephony and coupled circuits in spark apparatus. The principal advance, however, is the increasing adoption of continuous-wave transmission for radio telegraphy.

We also have the advent of strictly constant-frequency systems. A striking means of accomplishing this is furnished by the piezo-electric oscillator. A new radio communication system of the utmost selectivity and precision is made available by this new device, and services which require the operation of a large number of transmitting stations spaced as closely together as possible in frequency and taking full advantage of CW transmission will find this a great improvement.

The various causes of interference divide into two great classes, natural and man-made. Progress is being steadily made against both of these enemies. As to the natural interference, there will be always a certain residuum of atmospheric disturbances and fading which will necessarily limit the distance from any broadcasting station at which reliable satisfactory reception will be possible. The various kinds of man-made interference, on the other hand, are curable and are of local character; it can be expected that more and more localities will be freed from the various types of this pest.

Increase of knowledge and of practical applications characterize all phases of radio. We are coming to have a picture of the machinery by which the waves are being made in the behavior and potentialities of the waves of hitherto unknown frequencies. We are learning to direct the waves in a desired direction. The battle against interference is being won in spite of enormous increase in the use of radio.

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Continued

...under direction of Prof. ...
...NDAY, DECEMBER 22.
...Artists under direction of ...
...James Cowper of Drake Univer-
...sity, Moines, Ia.
...12:00 p. m.—Organ recital, E.
...Meier, organist at the Capitol.

WEDNESDAY, DECEMBER 21.
...Christmas program including
...sols by Scioia Mae A. Low
...violin solos by Eugene Bur-
...delusions by the Bankers' Life
...Orchestra, under direction of W.
...h.
...RIDAY, DECEMBER 26.
...The Williamson Brothers,
...mandolin and guitar artists;
...E. Seoval, baritone soloist, Miss
...Leach, soprano.

PHILADELPHIA, PA. (509 METERS)

SUNDAY, DEC. 21.
...Evening service, broadcast
...from Holy Trinity Church.
...Ben Sind and his WIP Sym-
...Orchestra, with Karl Bonawitz
...organ, broadcast direct from the
...town Theater.

TUESDAY, DEC. 22.
...The Theater, Elliott Lester.
...Direct broadcast from the
...State Penitentiary, Philadel-
...of a special Christmas program,
...entirely by the inmates.
...m.—"Emo's Weekly Movie
...cast," by Eli M. Orowitz, and a
...program by O'Dell's Hippo-
...Theater Orchestra of Pottstown,
...under the direction of Jerry
...Courtesy of George Benne-
...Theaters.

...Dance music by Harvey Mar-
...and his Vaudeville Orchestra,
...cast direct from the Cafe
...ed.

THURSDAY, DEC. 25.
...Concert by the Philadelphia
...Band, under the direction of
...Joseph Klefer, broadcast from
...Police Bandroom.

...Dance music by Harvey Mar-
...and his Vaudeville Orchestra,
...cast from the Cafe L'Aiglon.

SATURDAY, DEC. 27.
...The Romance of Chemistry,"
...es H. La Wall, Ph. M., Sc. D.
...m.—Artists recital by H. Ralph
...er, baritone; Flora Ripka, pianist;
...reviews by Robert A. Wach-
...literary critic of Station WIP.
...m.—Dance music by Art Coogan
...his orchestra, broadcast from the
...Madrid.
...m.—Organ recital by Karl Bo-
...za, broadcast direct from the Ger-
...own Theater.

AX—CLEVELAND, O. (390 METERS)

(Eastern Time.)
MONDAY, DECEMBER 22
...m.—Musical program broadcast
...t from Loew's State Theater.

TUESDAY, DECEMBER 23.
...m.—Program presented includ-
...ing choir from St. Stephen's Church,
...d visit from Santa Claus. Vocal
...instrumental solos; dance selec-

WEDNESDAY, DECEMBER 24.
...m.—Christmas carols by mem-
...of the St. Cecilia Society of Ak-

Y—NEW YORK, N. Y. (405 METERS)

(Eastern Time.)
SUNDAY, DEC. 21.
...m.—Bernard Levitt's Hotel
...modore Concert Orchestra.
...p. m.—"Reminiscences of a Re-
...ter," William H. Crawford.

TUESDAY, DEC. 23.
...p. m.—Duets, Harold J. Broy, ten-

RADIO PROGRAMS FOR THE WEEK—Continued

or Mrs. Rose Covello, soprano.
1:45 p. m.—"The Business Machinery
That Fills Your Christmas Stocking,"
Howard C. Enders, University of the
Air.

5:00 p. m.—"Political Situation in Wash-
ington Tonight," Frederick William
Wile, direct from WRC, Washington.
5:25 p. m.—Estey organ recital.
10:10 p. m.—Raymond Otis Hunter, bar-
itone; Anita G. Glanzer, mezzo-so-
prano.
10:25 p. m.—Sanda Albu, violinist.

FRIDAY, DEC. 26.
1:15 p. m.—Garrett Fitz Simons, tenor.
1:30 p. m.—"Winter Sports in Canada,"
Thomas A. Keen.
1:45 p. m.—Alfred H. Wertheim, violin-
ist; Helen Corwin, accompanist.
5:00 p. m.—"Radio—The World's
Schoolhouse," by Mrs. Eugene Cum-
mings.
10:15 p. m.—Ace Brigade and His Four-
teen Melodians, direct from Monte
Carlo Club.

WJZ—NEW YORK, N. Y. (455 METERS)

(Eastern Time.)
SUNDAY, DEC. 21.

7:00 p. m.—Nathan Abas' Hotel Penn-
sylvania Orchestra.
8:00 p. m.—Max Kalfus, tenor; Keith
McLeod, accompanist.
1:45 p. m.—Joseph Knecht's Waldorf As-
toria Sunday evening concert orches-
tra; WGY will also broadcast.

10:00 p. m.—"Xmas Program," Broad-
way Tabernacle Choir.

MONDAY, DEC. 22.
8:30 p. m.—Edgewater Community Chorus;
children's chorus and adults'
chorus.
9:00 p. m.—Piedmont Trio.

10:00 p. m.—"Xmas Program," Erna
Korn, contralto; Anna Fried, violinist.
10:45 p. m.—Jacques Green and his Club
Deauville Orchestra, with Clark's Ha-
waiians.

TUESDAY, DEC. 23.
1:30 p. m.—Nostrand-DeKaib Methodist
Episcopal Church mixed quartet.
1:45 p. m.—Essay on literature, Dr. Elias
Margolis, "Radio and Books."
5:00 p. m.—U. S. Navy Band, direct
from WRC, Washington, D. C.
10:00 p. m.—The Brunswick hour of mu-
sic, direct from Brunswick recording
laboratory; WRC, WGY and KDKA
will also broadcast.

11:00 p. m.—Meyer Davis' Society Or-
chestra from WRC, Washington, D. C.
WEDNESDAY, DEC. 24.
1:30 p. m.—Special Christmas program.
10:10 p. m.—Billy Wynne's Greenwich
Village Inn Orchestra.
11:30 p. m.—Christmas program direct
from WGY, Schenectady; Rose Moun-
tain, contralto; Marion Brewer, so-
prano.

THURSDAY, DEC. 25.
8:00 p. m.—Christmas program by East
Side Presbyterian Church quartet of
Paterson, N. J.; address by the Rev.
Howard A. Adair.
9:30 p. m.—Harold Stern's Hotel Belle-
clair Trio.
9:00 p. m.—Special Christmas program.
10:30 p. m.—Waldorf Astoria dance or-
chestra; WRC will also broadcast.

FRIDAY, DEC. 26.
8:15 p. m.—Samuel S. Aronson, pianist.
8:30 p. m.—Pavlova's "Don Quixote"
Ballet music, direct from Manhattan
Opera House.
10:00 p. m.—Hotel St. George Trio.
10:30 p. m.—Beaux Arts Orchestra, di-
rect from Studio Art Club.

SATURDAY, DEC. 27.
8:00 p. m.—Alme Hurrell, soprano; Ma-
bel Bestoff, accompanist.
10:30 p. m.—Williams College Musical
Clubs concert, direct from Hotel Plaza
ballroom; WRC will also broadcast.
10:30 p. m.—Hotel Astor dance orches-
tra.

WLS—CHICAGO, ILL. (345 METERS)

(Central Time.)
TUESDAY, DECEMBER 23.

8:00 p. m.—Farm program.
9:00 p. m.—WLS Theater presents An-
thony Wons in Shakespearean drama.
9:30 p. m.—George D. Horne, baritone;
Wendell Smith, saw and ukulele solo-
ist; Isham Jones and his College Inn
Orchestra; Ford and Glenn; special
program by the Metropolitan Choirs of
the People's Church under personal
direction of J. Wesley Jones.
12:00 p. m.—Midnight review.

WEDNESDAY, DECEMBER 24.
8:00 p. m.—Farm program.
9:15 p. m.—WLS Theater presents Wal-
lace Bruce Amesbury in Dickens'
"Christmas Carol."
10:00 p. m.—Swegatha Lutheran Chil-
dren's Chorus under direction of Prof.
Wichmann in Christmas carols.
10:30 p. m.—Fred Slaughter, violinist,
Ford and Glenn.

THURSDAY, DECEMBER 25.
12:00 to 1:00 p. m.—Special Christmas
day program by Walther League Chorus
of 325 voices.
6:30 p. m.—Ralph Emerson.
7:00 p. m.—Ford Rush and Glenn Row-
ell.

7:15 p. m.—WLS co-operating with the
Julia Gay Memorial M. E. Church's
Choir presents "The Coming of the
King," a Christmas cantata.
FRIDAY, DECEMBER 26.
8:00 p. m.—Farm program.
9:00 p. m.—WLS Theater presents "The
Bishop's Candelsticks," and adaptation
from Victor Hugo's "Jean Val Jean."
9:30 p. m.—Robinson and Bernard, Ed-
na L. Priebe, Isham Jones and his
College Inn Orchestra, Ford and
Glenn.

SATURDAY, DECEMBER 27.
7:15 to 12:00 p. m.—Saturday night re-
view.

WLW—CINCINNATI, O. (423 METERS)

(Central Time.)
SUNDAY, DEC. 21.

7:30 p. m.—Services of the First Pres-
byterian Church of Walnut Hills.
8:30 p. m.—Concert by the Western and
Southern Orchestra. Soloist, Joseph
Vito, harpist.

MONDAY, DEC. 22.
9 p. m.—Program from WLW studios,
featuring the Cooper Orchestra and
Quartet.
10 p. m.—Alvin Roehr's Music Makers.

TUESDAY, DEC. 23.
10 p. m.—Entertainment from Goodwins,
Gordon Kibler and his Black and
White Pennsylvanians. Senator
Schultz, Concert featuring the Ohio
Rubber Quartet and Instrumental Trio.

WEDNESDAY, DEC. 24. (Central Time.)

8 p. m.—Dance concert by the Chubb-
Steinberg Orchestra.
9 p. m.—Concert program featuring the
Formica Band and Orchestra.
12 p. m.—Midnight mass. Sacred Heart
Church of Camp Washington, conduct-
ed by Father Tieman.

THURSDAY, DEC. 25.
10:03 p. m.—Popular program by Doherty
Melody Boys.
10:30 p. m.—Concert program by the
Milnor Electric Instrument Trio.

WMAK—LOCKPORT N. Y. (265.5 METERS)

(Eastern Time.)
TUESDAY, DECEMBER 23.

8:15 p. m.—Cantata by Calvary Presby-
terian Church Choir.
THURSDAY, DECEMBER 25.

12:00 p. m.—Murray Whiteman's Mid-
night Serenaders.

WMAQ—CHICAGO, ILL. (447.5 METERS)

(Central Time.)
MONDAY, DECEMBER 22.

6:30 p. m.—Hotel La Salle Orchestra.
TUESDAY, DECEMBER 23.

6:00 p. m.—Chicago Theater organ re-
cital.
8:20 p. m.—Clara E. Laughlin, travel
talk; Association of Commerce weekly
talk; University of Chicago, lecture;
program by St. Mark's Choir of Glen
Elyn, Ill.

WEDNESDAY, DECEMBER 24.
8:00 p. m.—Christmas carols from
Northwestern University; Christmas
poems, read by Prof. W. F. E. Gurley
9:00 p. m.—WMAQ "play night," "The
Christmas Carol," by Dickens.

FRIDAY, DECEMBER 26.
8:30 p. m.—Musical geography. Mr. and
Mrs. Marx E. Oberndorfer. Musical
program by St. Leo's surprised choir.
SATURDAY, DECEMBER 27.

8:00 p. m.—Hilda Butler Parr, pianist,
and Douglas Malloch, poet; Radio
photologue, "Alaska and the Yukon,"
by Herman Wieg.
9:00 p. m.—Weekly Baibian & Katz Chi-
cago Theater review.

WMC—MEMPHIS, TENN. (500 METERS)

(Central Time.)
MONDAY, DECEMBER 21.

8:30 p. m.—Regular Monday evening re-
quest program by Biggers Georgia
Serenaders.
TUESDAY, DECEMBER 23.

8:30 p. m.—Program arranged and
sponsored by Missa Pellish.
THURSDAY, DECEMBER 25.

8:30 p. m.—Program by the Hotel Chis-
ca Orchestra.

FRIDAY, DECEMBER 26. (Central Time.)

8:30 p. m.—Britling's Cafeteria Orches-
tra, Prof. Chin-Chin director.
11:00 p. m.—Midnight frolic.
SATURDAY, DECEMBER 27.

8:30 p. m.—Program arranged and
sponsored by Mrs. E. F. Hawke.
WMAH—CINCINNATI, OHIO
(309 METERS)

(Central Time.)
SUNDAY, DECEMBER 21.

7:00 p. m.—Religious service under the
auspices of the Walnut Hills Christian
Church.
MONDAY, DECEMBER 22.

8:00 p. m.—The Original Blue Grass En-
tertainers; tenor solos, Arthur Schoul-
teis; trombone solos, Edgar Rupp;
xylophone solos, Robert Stange.
9:00 p. m.—The Original Blue Grass En-
tertainers.

WEDNESDAY, DECEMBER 24.
8:00 p. m.—Piano solos, Mary Frederick
Nieman; baritone solos, Frederick J.
Meyer, Mary Frederick Nieman, ac-
companist; organ selections by Kurt
Henkel; cello solos, Oscar Kriseho,
Margaret Bronson, accompanist; zih-
er solos, Mrs. Elizabeth Good Bruggen;
mixed quartet of First Congregational
Unitarian Church.

9:00 p. m.—Dance orchestra.
THURSDAY, DECEMBER 25.

8:00 p. m.—Christmas address, by Rev.
J. J. Castleberry; vocal duets, Mr.
Ruth Lohrum Hahn, soprano, and
Mrs. Emma Lohrum Grace, contralto,
Miss Phoebe Green, accompanist; so-
prano solos, Mrs. Ruth Lohrum Hahn;
contralto solos, Mrs. Emma Lohrum
Grace; Christmas reading, Mrs. Ethel
Knapp Behrman; mezzo soprano solos,
Mrs. Grace Long Shiber; violin solos,
Luke Ehrigott, Lucille White, accom-
panist.

SATURDAY, DECEMBER 27.
10:00 p. m.—Mixed musical program.
11:00 p. m.—Murray Horton's Hotel
Alma Orchestra.

WOAW—OMAHA, NEB. (526 METERS)

(Central Time.)
SUNDAY, DECEMBER 21.

6:00 p. m.—Bible study period.
9:00 p. m.—Musical chapel service,
Hanscom Park Methodist Episcopal
Church.
MONDAY, DECEMBER 22.

9:00 p. m.—Program by courtesy of
Omaha Advertising Selling League.
TUESDAY, DECEMBER 23.

8:00 p. m.—Concert program by the 17th
U. S. Infantry Band.
THURSDAY, DECEMBER 25.

9:00 p. m.—Christmas night program.
FRIDAY, DECEMBER 26.

9:00 p. m.—Merry Musical Maids of Ho-
tel Fontenelle.



Indoors—where it belongs!

RADIO is but one of the good things—at Christmas.
Enjoy it fully with TALKING TAPE!

TALKING TAPE—used indoors—will bring the chimes and
the choir—the Christmas messages of love and good will—
to you clearly and distinctly. Equal to the average outdoor
antenna—with none of its faults—and far superior in results
to any type of loop—it's ideal for Christmas reception.

And for the last-minute gift—TALKING
TAPE!

MERRY CHRISTMAS!



Manufactured by
HOPE WEBBING COMPANY
For Forty Years
The World's Largest Manufacturers of Electric Tapes
PROVIDENCE, R. I.

Little Wonder Phonodapter

\$4.50

A small loud speaker unit giv-
ing remarkable tone quality
and volume. Factory adjusted
diaphragm insures maximum
reproduction. Fits all types of
phonographs. A big value at
a moderate price.



Loop Aerial

...folds up like an um-
...loop is attractive in
...The wood parts are
...bed, dark mahogany
...metal parts are polished
...el plated. Insulation is
...formica. The third tap is
...for use with Super—and
...ther circuits. To see
...loop is to appreciate
...high quality of Signal
...manship. Electrically this
...proved in test the most
...devised.

...aler. Write us for folder
...other Signal Radio

...FG. CO. MEMPHIS

RADIO PROGRAMS FOR THE WEEK—Continued

10:30 p. m.—Sammy Helman's Orchestra of Brandeis Store restaurants.

SATURDAY, DECEMBER 27.

9:00 p. m.—Program arranged by Clinton R. Miller.

11:15 p. m.—Woolf frolie, by Frank Hodek Jr., and his Omaha Nightingales.

WOC—DAVENPORT, IOWA (484 METERS)

(Central Time.)

SUNDAY, DECEMBER 21.

8:00 p. m.—Church service. A Christmas service conducted by Rev. W. B. Slater, pastor of First Christian Church of Moline, Ill. Christmas carols sung by quartet.

9:30 p. m.—Musical program.

MONDAY, DECEMBER 22.

7:30 p. m.—Educational lecture, "Old Masters," by R. W. Stephenson of Department of Philosophy, The Palmer School of Chiropractic.

8:00 p. m.—Musical program. Special program of Christmas music by the Schmidt Music Co. Concert Orchestra.

10:00 p. m.—Musical program. Program by Temple Chorus of Rock Island, Ill.

8:00 p. m.—Musical program. Special children's program through the courtesy of the Soldiers' Orphans' Home, of Davenport, Ia.

10:00 p. m.—Orchestra program. Special Christmas eve program by the Palmer School Radio Orchestra.

FRIDAY, DECEMBER 26.

7:30 p. m.—Educational lecture. A Christmas talk by Mrs. Otto Elmgreen of Long Grove, Ia.

8:00 p. m.—Musical program. Harry Yeazelle Mercer, tenor; Norine Murray, soprano; Eleanor Mooney, accompanist.

SATURDAY, DECEMBER 27.

9:00 p. m.—Orchestra program. Louis Connor and his Le Claire Hotel Orchestra broadcasting direct from the Le Claire Winter Garden, Moline, Ill. Song and novelty numbers by Peter MacArthur.

WOS—JEFFERSON CITY, MO. (440.9 METERS)

(Central Time.)

SUNDAY, DECEMBER 21.

7:30 p. m.—Religious services of the First Christian Church.

MONDAY, DECEMBER 22.

8:00 p. m.—Piano recital by Harry M. Snodgrass.

FRIDAY, DECEMBER 26.

8:00 p. m.—Address: "Missouri," by George A. Flickens.

8:15 p. m.—A radio conversation by Jewell Mayes.

8:30 p. m.—Old-time barn dance program of "fiddlin'" tunes presented by D. B. Jones of Stephens, Mo., assisted by the Oliver Brothers of Columbia, Mo.

WRC—WASHINGTON, D. C. (469 METERS)

(Eastern Time.)

TUESDAY, DECEMBER 23.

8:10 p. m.—Concert by the Sanctuary Choir of St. Patrick's Church, C. A. Benson, director.

8:30 p. m.—"The Political Situation in Washington Tonight," by Frederick William Wile, broadcast jointly with Station WJY.

9:00 p. m.—Concert by the United States Navy Band, Charles Benter, director, broadcast jointly with Station WJZ.

10:00 p. m.—"Brunswick Hour of Music," Claire Dux, John Charles Thomas, Leopold Godowsky, soloists; Elshuco Trio. Broadcast from the Brunswick Laboratory, jointly with Stations WJZ, WGY, and KDKA.

11:00 p. m.—Dance program by Meyer Davis' Le Paradis Band direct from the Cafe Le Paradis, broadcast jointly with Station WJZ.

THURSDAY, DECEMBER 25.

7:00 to 12:00 p. m.—Special Christmas program.

FRIDAY, DECEMBER 26.

8:15 p. m.—Bible talk.

10:30 p. m.—Dance program by the Astor Hotel Orchestra, New York, broadcast jointly with Station WJZ, New York City.

11:15 p. m.—Organ recital by Otto Beck, broadcast direct from Crandall's Tivoli Theater.

WSAI—CINCINNATI, OHIO (309 METERS)

(Central Time.)

SUNDAY, DECEMBER 21.

2:00 p. m.—Sermonette. Sacred chime concert.

MONDAY, DECEMBER 22.

10:00 p. m.—Songs, Angela Devoto and Bert Lindsay; Cliff Burns County Club Orchestra.

TUESDAY, DECEMBER 23.

9:00 p. m.—Musical program.

THURSDAY, DECEMBER 25.

10:00 p. m.—Tenor solos, Howard Hartford; Miss Oramay Ballinger; Romany Reed and string quartet.

SATURDAY, DECEMBER 27.

8:00 p. m.—Chime concert; Bicycle Male Quartet; contralto solos, Miss Helen Nugent; Stept and Collins.

12:00 p. m.—Midnight Entertainers.

12:30 a. m.—Freda Sanker's Toadstool Orchestra.

WSB—ATLANTA, GA. (429 METERS)

(Central Time.)

SUNDAY, DECEMBER 21.

6:00 to 6:00 p. m.—Sacred concert by De Kalb County I. O. O. F. convention.

7:30 p. m.—Wesley Memorial Church services.

MONDAY, DECEMBER 22.

10:45 p. m.—Warner's Seven Aces Orchestra.

TUESDAY, DECEMBER 23.

8:00 to 9:00 p. m.—Win-One Quartet in "Song Echoes of Yesterday."

10:45 p. m.—Roger Wolfe Kahn, million-dollar New York orchestra.

WEDNESDAY, DECEMBER 24.

10:45 p. m.—All-star Christmas frolie.

THURSDAY, DECEMBER 25.

8:00 to 9:00 p. m.—Hawaiian serenade by Kimo Kalohi's Moonlight Five.

10:45 p. m.—Radio entertainment.

FRIDAY, DECEMBER 26.

10:45 p. m.—Special Christmas merriment.

SATURDAY, DECEMBER 27.

8:00 to 9:00 p. m.—Ed and Grace McConnell, Georgia songmakers.

10:45 p. m.—Atlanta Journal hired help skylark.

WTAM—CLEVELAND, O. (390 METERS)

(Eastern Time.)

MONDAY, DECEMBER 22.

8:00 to 10:00 p. m.—Concert program by

WRC—WASHINGTON, D. C. (469 METERS)

(Eastern Time.)

TUESDAY, DECEMBER 23.

8:10 p. m.—Concert by the Sanctuary Choir of St. Patrick's Church, C. A. Benson, director.

8:30 p. m.—"The Political Situation in Washington Tonight," by Frederick William Wile, broadcast jointly with Station WJY.

9:00 p. m.—Concert by the United States Navy Band, Charles Benter, director, broadcast jointly with Station WJZ.

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11:00 p. m.—Dance program by Meyer Davis' Le Paradis Band direct from the Cafe Le Paradis, broadcast jointly with Station WJZ.

THURSDAY, DECEMBER 25.

7:00 to 12:00 p. m.—Special Christmas program.

FRIDAY, DECEMBER 26.

8:15 p. m.—Bible talk.

10:30 p. m.—Dance program by the Astor Hotel Orchestra, New York, broadcast jointly with Station WJZ, New York City.

11:15 p. m.—Organ recital by Otto Beck, broadcast direct from Crandall's Tivoli Theater.

WSAI—CINCINNATI, OHIO (309 METERS)

(Central Time.)

SUNDAY, DECEMBER 21.

2:00 p. m.—Sermonette. Sacred chime concert.

MONDAY, DECEMBER 22.

10:00 p. m.—Songs, Angela Devoto and Bert Lindsay; Cliff Burns County Club Orchestra.

TUESDAY, DECEMBER 23.

9:00 p. m.—Musical program.

THURSDAY, DECEMBER 25.

10:00 p. m.—Tenor solos, Howard Hartford; Miss Oramay Ballinger; Romany Reed and string quartet.

SATURDAY, DECEMBER 27.

8:00 p. m.—Chime concert; Bicycle Male Quartet; contralto solos, Miss Helen Nugent; Stept and Collins.

12:00 p. m.—Midnight Entertainers.

12:30 a. m.—Freda Sanker's Toadstool Orchestra.

WSB—ATLANTA, GA. (429 METERS)

(Central Time.)

SUNDAY, DECEMBER 21.

6:00 to 6:00 p. m.—Sacred concert by De Kalb County I. O. O. F. convention.

7:30 p. m.—Wesley Memorial Church services.

MONDAY, DECEMBER 22.

10:45 p. m.—Warner's Seven Aces Orchestra.

TUESDAY, DECEMBER 23.

8:00 to 9:00 p. m.—Win-One Quartet in "Song Echoes of Yesterday."

10:45 p. m.—Roger Wolfe Kahn, million-dollar New York orchestra.

WEDNESDAY, DECEMBER 24.

10:45 p. m.—All-star Christmas frolie.

THURSDAY, DECEMBER 25.

8:00 to 9:00 p. m.—Hawaiian serenade by Kimo Kalohi's Moonlight Five.

10:45 p. m.—Radio entertainment.

FRIDAY, DECEMBER 26.

10:45 p. m.—Special Christmas merriment.

SATURDAY, DECEMBER 27.

8:00 to 9:00 p. m.—Ed and Grace McConnell, Georgia songmakers.

10:45 p. m.—Atlanta Journal hired help skylark.

WTAM—CLEVELAND, O. (390 METERS)

(Eastern Time.)

MONDAY, DECEMBER 22.

8:00 to 10:00 p. m.—Concert program by

THURSDAY, DECEMBER 25.

10:00 p. m.—Tenor solos, Howard Hartford; Miss Oramay Ballinger; Romany Reed and string quartet.

SATURDAY, DECEMBER 27.

8:00 p. m.—Chime concert; Bicycle Male Quartet; contralto solos, Miss Helen Nugent; Stept and Collins.

12:00 p. m.—Midnight Entertainers.

12:30 a. m.—Freda Sanker's Toadstool Orchestra.

WSB—ATLANTA, GA. (429 METERS)

(Central Time.)

SUNDAY, DECEMBER 21.

6:00 to 6:00 p. m.—Sacred concert by De Kalb County I. O. O. F. convention.

7:30 p. m.—Wesley Memorial Church services.

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SATURDAY, DECEMBER 27.

8:00 to 9:00 p. m.—Ed and Grace McConnell, Georgia songmakers.

10:45 p. m.—Atlanta Journal hired help skylark.

WTAM—CLEVELAND, O. (390 METERS)

(Eastern Time.)

MONDAY, DECEMBER 22.

8:00 to 10:00 p. m.—Concert program by

The Windemere M. E. Church Choir, assisted by WTAM Symphonic Ensemble.

10:30 p. m. to 1 a. m.—Dance program by Philip Spitalny's Victor Recording Orchestra.

TUESDAY, DECEMBER 23.

6:00 to 7:00 p. m.—Dinner dance program by Guy Lombardo and his Royal Canadians.

WEDNESDAY, DEC. 24.

8:00 to 10:00 p. m.—Concert program.

THURSDAY, DECEMBER 25.

6:00 to 7:00 p. m.—Dinner dance program by Guy Lombardo and his Royal Canadians.

FRIDAY, DECEMBER 26.

6:00 to 7:00 p. m.—Dinner dance program by Guy Lombardo and his Royal Canadians.

SATURDAY, DECEMBER 27.

9:00 to 12:00 p. m.—Dance program by the Ev. Jones WTAM Dance Orchestra.

WWJ—DETROIT, MICH. (517 METERS)

(Eastern Time.)

MONDAY, DECEMBER 22.

8:30 p. m.—The Detroit News Orchestra. Miss Marguerite Priestap, soprano; Miss Clara Ferguson, contralto; Stanley Perry, tenor.

TUESDAY, DECEMBER 23.

7:00 p. m.—The Detroit News Orchestra. Mrs. Claudine Secor, soprano; Miss Jane Robinson, contralto.

WEDNESDAY, DECEMBER 24.

7:00 p. m.—The Detroit News Orchestra. Charles Coates, baritone.

10:00 p. m.—Dance music by Jean Goldkette's Orchestra.

11:00 p. m.—Special Christmas merriment broadcast from St. Paul's Episcopal Cathedral.

FRIDAY, DECEMBER 26.

7:00 p. m.—The Detroit News Orchestra. Mrs. May F. Cowperthwaite, soprano; Ralph Hatch, baritone; Anne Campbell, Detroit News poet.

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